

TECHNOLOGY UTILIZATION NETWORK SYSTEM

(TUNS)

FUNCTIONAL REQUIREMENTS DOCUMENT

PHASE II

RELEASE 1

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TUNS FUNCTIONAL REQUIREMENTS DOCUMENT

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SECTION 1

GENERAL INFORMATION

GENERAL INFORMATION

1.1 SUMMARY

The Technology Utilization Network System (TUNS), providing NASA with the benefits of current office automation technology, enables NASA users quickly and efficiently to capture, evaluate and disseminate the new technology which NASA and others under Research & Development contracts to NASA develop.

TUNS software allows for swift, uniform, and effective information gathering for all aspects of contract administration, new technology reporting, and other technology transfer activities. TUNS provides the Technology Utilization Office (TUO) with software for New Technology Reporting (NTR) clause administration, contract correspondence, NTR tracking, awards administration, and general office automation. TUNS also provides software for use by the Industrial Application Centers (IACs) and others involved in technology transfer.

TUNS software additionally provides the capability to assist in the preparation and submittal of project plans, cost proposals, budgets, and management reports.

In addition TUNS features an automated orientation and training facility. This facility provides computer-based training in the use of off-the-shelf and custom developed TUNS software. It also provides Technology Utilization Offices, Industrial Application Centers, and Centers for Commercialization and Development of Space with orientation materials for both contract technical representatives and others in their technology transfer related duties.

Two phases of TUNS development will accomplish this automation task. The following groups compose the teams responsible for TUNS development:

- o NASA Headquarters Code CU Program/Project Management
- o System Development Contractor (Information Systems & Networks Corporation - ISN)
- o User Working Group(s)
- o Computer/Network Support Facilities Interface Group

Phase I implemented a PC based system capable of operating either on a local area network or on a stand-alone workstation. This phase automated the New Technology Administration and Management, and provided both office automation packages and Orientation and Training Functions.

Phase II will provide centrally maintained database information, as well as automate the IAC interface and other remaining functions. Phase II, divided into Release I and Release II, will connect the local area networks and stand-alone workstations with the central computer through accompanying software enhancements providing additional capabilities. These enhancements and capabilities are listed under 2.3 Proposed Procedures in this document.

Phase II will install enhancements to the networks of personal computers implemented in Phase I. These enhancements will provide the TU program member with uniform automation tools for the following work functions.

- o Office Automation Support
- o New Technology Administration and Management
- o Industrial Applications Center Administration and Management
- o TU Project Management (Site)
- o TU Program Management (Headquarters)
- o Orientation and Training
- o TUNS System Administration

1.2 ENVIRONMENT

TUNS is sponsored by the NASA Headquarters Technology Utilization Division, Code CU. The TUNS User Working Group (UWG), composed of various members of the NASA TU "family," worked with ISN to define the functional requirements for Phase I and II. ISN, working closely with NASA TU Headquarters and other NASA contractors, has completed Phase I development and is beginning Phase II of TUNS.

TUNS will assist the following users in their day-to-day activities:

- o TU Coordinators
- o TU Officers
- o TU Office Staff
- o Technology Counselors
- o IAC Directors
- o IAC Staff
- o Centers for Commercialization of Space (CCDS)
- o Headquarters TU Staff

In addition TUNS applications provide support for the following contractors:

- o Tech Brief Evaluation Contractor
- o Tech Brief Preparation Contractor
- STI? o SRI Facility Contractor
- o TU Support Contractors
- o CCDS Contractors

By the completion of Phase II, users will have received the general office automation software which includes calendars, TU Bulletin Board, Electronic Mail, several on-line directories, word processing, database manager, spreadsheet, and graphics.

1.3 REFERENCES

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11. Information Systems & Networks Corp., TUNS User Guide, July 1988
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SECTION 2

OVERVIEW

OVERVIEW

2.1 Background

The Technology Utilization Network System (TUNS) was developed to enhance the process of acquiring, evaluating, and disseminating new technology developed by NASA and by others under contract to NASA. TUNS achieves this goal by providing advanced automation tools and network communications to the Technology Utilization (TU) Program and enables users to collect new technology data, organize it, file it for safekeeping, and retrieve it for efficient use.

TUNS was developed in stages and in response to the current needs of NASA's TU Program. Step one involved the development of a preliminary description of computer system requirements and architecture to define and clarify the goals for automating the TU Program. In step two ISN developed the Concept Demonstration Model for the Technology Utilization Network System (TUNS). Step three involved the creation and development of the TU User Working Group (UWG) to define and document the needs of the TU family. The UWG defined objectives and procedures for Phase I of TUNS and compiled this information in a Functional Requirements Document (FRD). The primary focus of the Functional Requirements Document in Phase I supported the TU goals of increasing the acquisition of new technology and increasing overall TU efficiency.

Phase II of TUNS will consist of two distinct releases. This Functional Requirements Document will define the objectives and procedures for Phase II, Release I. The primary focus of Phase II supports the goal of increasing new technology dissemination. A separate Functional Requirements Document will accompany Release II.

2.2 Current Procedures

TUNS software and uniform hardware is being installed in approximately 30 NASA Technology Utilization sites throughout the United States. Using the Novell Local Area Network (LAN) concept and the Unify Database Management

System (DBMS) as a basis for the software development, TUNS provides maximum sharing of Technology Utilization (TU) data at each local site. The system software is designed to accommodate both LAN users as well as the user on a stand-alone workstation.

2.3 Proposed Procedures

Phase II of TUNS will be developed and installed in two releases in order to provide the users with the central site capabilities. Release I of Phase II will contain the following functions:

- o New Technology Report: The New Technology Report section of TUNS has been divided into three procedures. The TUO will enter initial NTR information in the NTR Short Form records. The short form contains fewer mandatory fields and provides the user with options of completing the Long Form and/or the Tracking Form as the need arises. The NTR Long Form will contain the textual portions of the NTR such as abstract, novelty, solution, and problem. The NTR Tracking Record provides the TUO with the capability to maintain detailed milestone tracking beyond that provided in the Short Form.
- o NTR Evaluation Form: This function allows SRI and COSMIC to transmit the NTR Evaluation Report to the TUOs via electronic means. SRI and COSMIC will send an electronic copy of the report to the central database where the responsible TUO will extract it and incorporate it into their local evaluation database.
- o Contract/Grant: The additional capabilities provided in this function include the presentation in a matrix format of the letters to be printed for the specified contracts. The user will be permitted to view the matrix and mark for non-print those letters which should not be printed due to inaccuracies in the contract database.
- o Contract/Grant Report: The creation of a report listing all CPRI's contained in the CPRI database for a specified contract number will be added to TUNS.

- o Organization Database: The standard TUNS features of Browse, Print, Query, and Keyword Search will be added to the Organization Database application.
- o Technical Transfer Agent Database: The standard TUNS features of Browse, Print, Query, and Keyword Search will be added to the TTA Database application.
- o TU Project Management (Site): The linkage to a standard project management package and the ability to generate HQ Quarterly Management Reports will be added to TUNS.
- o TU Program Management (HQ): The linkage to a standard project management package and the ability to generate Quarterly Management Reports will be included in Release I.
- o Office Automation Training: TUNS training will be expanded to include linkages to the project management software tutorial and to the engineering graphics software tutorial.
- o TUNS System Training: The CBT modules will be modified to include the new functions as well as incorporate any changes in the existing system.
- o Engineering Graphics: TUNS will provide a linkage to an off-the-shelf engineering graphics package.
- o Desktop Publishing: TUNS will provide linkage to an off-the-shelf desktop publishing package.
- o TU Projects: Additional capability to upload TU Project Transactions to the central computer.
- o NASA Organization Directory: Renaming of the Expert Referral Central Database, already implemented in Phase I.

- o Central Databases: TUNS will be expanded to include databases which reside on a central computer and can be accessed by all members of the TU Family. The central computer will be an IBM located at the NASA HQ. The central system will utilize the ADABAS database management system and the NATURAL 2 programming language. The user interface will be structured to operate as closely to the TUNS PCs as permitted by the DBMS and the programming language. These databases will be updated locally. Updated records will be transmitted to the central database for processing. The DBA assigned to the specific database will have online update capability at the central site, but it must work within the constraints of the NATURAL 2 editor. The following databases will reside on the central computer:

TU Projects (Central)
NTR/Evaluation Summary (Central)
Space Benefits (Central)

The functions provided for these databases include: Browse, Query, Keyword Search, Print, Extract to a Local File, and Update.

- o Separation of TUO and IAC Functions: In the Release 1 of Phase II, the functions typically performed only by the TUOs, such as NTR Evaluation, Contract Administration, etc., will be separated from those functions typically used by the IACs, such as Bibliographic Searching. This separation of functions will result in the distribution of separate TUNS databases and software. The major benefits of this function will be the reduction of disk space required for TUNS.

SECTION 3

REQUIREMENTS

REQUIREMENTS

3.1 PHASE II NEW FUNCTIONS

3.1.1 Upload to Central Database

TUNS will provide the capability for local sites to update central database information. When records require uploading, a user will make a menu selection to transmit records to the central database. The user will be connected to the central mainframe, and the selected records for transmission will be stored in ASCII flat files and sent to the central database for update.

3.1.2 Download to Local Database

TUNS will provide the capability for local sites to download central database files for local updates. When records require downloading, a user connected to the mainframe will make a menu selection to transmit records to the local database. Records selected for transmission will be stored in ASCII flat files and sent to the local database where they will be available for processing.

3.1.3 Print from Central Database

TUNS will provide the capability for local sites to print from the central database. When users connected to the mainframe desire to print records from the central database, they will select a print function either from a menu or from the function key bar within a BROWSE, QUERY, or KEYWORD SEARCH. The records selected for printing are stored in flat files and transmitted to the local system. TUNS will display a printer selection screen to enable users to select which local printer will print their central reports.

3.2 CENTRAL SITE DATABASES: TU PROJECTS (CENTRAL)

3.2.1 General Description

The TU Projects database, already implemented in Phase I on a local PC level, will be added to the central computer. This database is used to record all pertinent information pertaining to a field office's projects. Included in this record type are fields for the project title, financial information, and various milestones.

To accommodate the collection of more information, the local version of this database will be expanded by eleven fields. The Central computer version will be an exact replica of the expanded local database. Additionally, a new financial summary report will be added to both databases. This report will show the financial status of projects funded within the current fiscal year.

3.2.2 Functional Description

Each site will maintain its own projects on an on-going basis, just as it has in Phase I. On a quarterly basis, each site will upload its project records to the central computer. Research Triangle Institute (RTI) will then review these records for certification. After the certification process is complete, each site will download its projects back to its local database. At the beginning of the next quarter, the cycle will begin again. The functions applicable to this central database will be Query, Keyword Search, Generate Reports, Print, and View.

3.2.3 Database Elements

The schema for the TU Projects database developed during Phase I will be expanded for use on the central computer. Refer to Appendix A, Section 1 - TU Project Schema - for a detailed list of elements or Section 2 - TU Project Elements Descriptions - for a description of each database element. All new elements for Phase II will be marked with an asterisk in both listings.

3.2.4 Query TU Projects (Central) Records

a. Input

The user at the local PC will access the central computer from one of the various TUNS menu selections. TUNS will execute the communication package, link the user to the central computer, and prompt the user for his Logon ID. From the Main Menu he will go to the TU PROJECTS (CENTRAL) DATABASE MENU where he may select Query. (See Appendix B.) The query fields found on the QUERY RECORD SELECTION CRITERIA screen for the TU Projects (Central) database will be the same for both Phase I and Phase II. If the queried data is found, TUNS will process the record selection group through the Pager program.

b. Processing

The Query program is used to select a group of records based on data values in specified fields. The database records that match the query fields will result in a selection group. The selection group will be processed further by the Pager program.

c. Output

The QUERY: RECORD SELECTION (Pager) screen will use the same 2-line record description as that implemented during Phase I. The user may select records for final processing by choosing View, Print or Download. View will result in the record being output to screen. (See Appendix C.) Download will result in selected records being extracted and formatted into an ASCII file. This file may be downloaded to the local PC where the user can load the data into the local database. Print will result in selected records being extracted and formatted into an ASCII Print file for downloading and printing locally.

3.2.5 Keyword Search of TU Projects (Central) Records

a. Input

The user at the local PC may access the central computer from one of several TUNS menu selections. TUNS will execute the communication package, link the user to the central computer, and prompt the user for his Logon ID. From the Main Menu he will go to the TU PROJECTS (CENTRAL) DATABASE MENU where he may select KEYWORD SEARCH OF TITLES or KEYWORD SEARCH OF ABSTRACT. (See Appendix B.) The SEARCH DATA CRITERIA screen will prompt the user to enter the desired keywords. The Title or Abstract fields will then be searched for the user's keywords. If the keywords are found, the Pager program will process the record selection group.

b. Processing

The Keyword Search program is used to select a group of records based on the presence of keywords in specified fields. The database records which contain the keywords in these fields will result in a selection group. The selection group will be processed further by the Pager program. The KEYWORD SEARCH DATA ENTRY screen allows the user to input, in free form, up to four keywords along with the relational conditions of AND or OR.

c. Output

SEARCH RECORD SELECTION (Pager) screen will use the same 2-line record description as that implemented during Phase I. The user may select records for final processing: View, Print, or Download. View will result in a record being output to screen. (See Appendix C.) Download will result in selected records being extracted and formatted into an ASCII file. This file may be downloaded to the local PC where the user can load the data into the local database. Print will result in fields from selected records being extracted and formatted into an ASCII Print file for downloading and printing locally.

3.2.6 View TU Projects (Central) Records

a. Input

The user at the local PC may access the central computer from one of several TUNS menu selections. TUNS will execute the communication package, link the user to the central computer, and prompt the user for his Logon ID. From the Main Menu he will go to the TU PROJECTS (CENTRAL) DATABASE MENU where he may select SEARCH OF TITLES, SEARCH OF TEXT or QUERY PROJECT RECORDS. (See Appendix B.) The DATA CRITERIA screen will prompt the user to enter desired keywords or field information. The system will search the appropriate field(s) in the TU Project (Central) Database for a match. The Pager program will process the record selection group.

b. Processing

The View program will display the database record using the update entry screens. (See Appendix C.) This program will provide the user with view only access so that the user may read the records but may not update them.

c. Output

The RECORD SELECTION (Pager) screen will use the same 2-line record description as that implemented during Phase I. View will result in the record being output to screen in the same format as the update screen. (See Appendix C.)

3.2.7 Update TU Projects (CENTRAL) Records

a. Input

The users will perform their updates locally, then upload to the central computer. At the central computer TU Projects menu, RTI will select MAINTAIN TU PROJECTS (CENTRAL) RECORDS. The DATA CRITERIA screen will prompt the user to enter desired keywords or field information. The MAINTAIN KEYWORD ENTRY screen will prompt the user for the record key of an existing record for updating or for the record key of a new record to be entered. The update function at the Central computer will be limited to RTI, HQ, and the ISN DBA.

b. Processing

The Update program will perform the database record modifications. This program will present the user with a data entry screen which will contain the field values if the record currently exists, or empty field values if the record is to be newly entered. Updates are made to the database immediately as the user enters the field values. Validation of fields will occur prior to update of the database.

c. Output

The Maintain Screen will prompt the user to enter a record key. The system will display the Data Entry Screen either with data from the selected record or with blank field values ready for data entry. Update will result in the record being output to a screen where the user can make changes. (See Appendix C.)

3.2.8 Print TU Projects (Central) Record from Menu

a. Input

The user may select TU PROJECT (CENTRAL) DATABASE from the central computer's Main Menu. The user may select PRINT TU PROJECTS RECORD from the TU PROJECT (CENTRAL) MENU. (See Appendix B.) The PRINT RECORD SELECTION screen will prompt the user to enter the record number of the record to be printed. (See Appendix C.)

b. Processing

The Print program is a general utility used to print reports, correspondence, and individual records. Because the record to be printed originates at the central computer, TUNS will format the selected records into an ASCII file and download the file to the local computer for printing.

c. Output

Specific fields from the selected record will be formatted into a standard report and the report converted into an ASCII file. The communication package will be executed and the file transmitted to the local computer where it will be printed by the user.

3.2.9 Print TU Projects (Central) Records from Pager

a. Input

The user may select TU PROJECT (CENTRAL) DATABASE from the central computer Main Menu. The user may select KEYWORD SEARCH OF TITLES, KEYWORD SEARCH OF TEXT or QUERY TU PROJECTS RECORDS from the TU PROJECT (CENTRAL) MENU. (See Appendix B.) The DATA CRITERIA screen will prompt the user to enter the desired keywords or field information. The system will search the appropriate field(s) in the TU Projects Database for a match. If a match is found, the Pager program will process the record selection group.

b. Processing

The Print program is a general utility used to print reports, correspondence, and individual records. Because the record to be printed originates at the central computer, TUNS will format the selected records into an ASCII file and download the file to the local computer for printing.

c. Output

The RECORD SELECTION (Pager) screen will use the same 2-line record description as that implemented during Phase I. The user may select records for final processing by choosing F3-PRINT. (See Appendix C.) F3-PRINT will result in specific fields from the record selection group being formatted into an ASCII print file of the report format displayed on the screen, and Fx-DNLOAD will be pressed by the user to download the file. The communications package will be executed and the file transmitted to the local computer where the ASCII file will be printed by the user.

3.2.10 Print TU Project (Central) Reports from the Central Database

a. Input

The user will go to the TU PROJECT (CENTRAL) MENU from the central computer's Main Menu where he will select GENERATE TU PROJECT (CENTRAL) REPORTS. (See Appendix B.) The user will then select the report to be printed from the GENERATE TU PROJECTS (CENTRAL) REPORTS

MENU. The QUERY DATA CRITERIA screen will prompt the user to fill in specified field values. (This process will be the same for both Phase I and Phase II.) The PRINT RECORD SELECTION screen will prompt the user to enter the record number of the record to be printed. (See Appendix C.) TUNS will convert the completed report into an ASCII print file and download it to the local computer for printing.

b. Processing

TUNS specialized programs will be written for the TU Projects (Central) Database to accommodate single performance functions such as formatted reports. The print layout for each report will not change from that implemented during Phase I. The data for the TU Projects Reports will be gathered at the central computer, converted into an ASCII file, and downloaded to the local PC for printing.

c. Output

The formatted report will be converted into an ASCII file. The communications package will be executed and the file transmitted to the local computer. The ASCII print file at the local PC will be printed by the user.

3.2.11 Download TU Projects (Central) Records to the Local PC

a. Input

The user may select TU PROJECTS (CENTRAL) DATABASE from the central computer's Main Menu. The user may select KEYWORD SEARCH OF TITLES, KEYWORD SEARCH OF TEXT or QUERY TU PROJECTS (CENTRAL) RECORDS from the TU PROJECT (CENTRAL) MENU. (See Appendix B.) The DATA CRITERIA screen will prompt the user to enter desired keywords or field information. The system will search the appropriate field(s) in the TU Project (Central) Database for a match. If a match is found, the Pager program will process the record selection group.

b. Processing

The Download program will extract all fields from the selected records and format the data into an ASCII file. The file will be downloaded and placed at a pre-determined location on the local PC where the user can load the records into the local database.

c. Output

The RECORD SELECTION (Pager) screen will use the same 2-line record description as that implemented during Phase I. The user may select the records for final processing by choosing Fx-DNLOAD. (See Appendix C.) Fx-DNLOAD will result in all fields from the record selection group being extracted and converted to ASCII file format. The communications package will be executed and the file transmitted to the local computer for processing by the user. The individual site can only download its own projects.

3.2.12 Financial Summary of TU Projects

a. Input

The user will select FINANCIAL SUMMARY OF TU PROJECTS from the GENERATE TU PROJECTS REPORTS menu. The current fiscal year will be computed from the system date and all records which have the FUND STATUS field equal to that fiscal year will be selected. If the selection is made from the central computer, the user logon will be verified as a NASA HQ logon id. If it is not a NASA HQ or ISN ID, an appropriate message will be displayed and access prohibited.

b. Processing

The TU Projects records selected will be sorted by center code. The records will be printed listing the center name, the project title, NASA requested dollars, NASA obligated dollars, NASA 506 dollars, NASA costed dollars, NASA committed dollars, and total other dollars. The dollar figures will be totalled by center and by NASA projects at the appropriate breaks.

c. Output

The Financial Summary of TU Projects report will be produced for all centers if the report is generated from the central database or for the individual center if the report is generated from the local PC menu. See Appendix D for a layout of this report.

3.2.13 Delete TU Projects (Central)

a. Input

The user will select DELETE TU PROJECTS (CENTRAL) from the TU PROJECTS (CENTRAL) menu. The DELETE KEYWORD ENTRY screen will prompt the user for the record key of the existing record to be deleted.

b. Processing

The Delete program will search the database for the record matching the key entered on the data entry screen. The first screen of the record will be displayed using the View format, and the user will be requested to verify that this record should be deleted. If the response is "Y", the record is deleted immediately.

c. Output

The first TU Projects (Central) database VIEW screen will be displayed for user verification of the delete request. When the user verifies that he wishes the deletion to take place, the record is removed from the central database.

3.3 CENTRAL SITE DATABASES: SPACE BENEFITS (CENTRAL)

3.3.1 General Description

The Space Benefits database, already implemented in Phase I on a local level, will be expanded and added to the central computer. This database is used to record all information pertinent to each office's understanding of benefits derived from contracts awarded by NASA or research performed by NASA.

Included in this record type are fields for the nature of the benefit, a summation of the benefit, financial implications of the benefit, users of the benefit, and bibliographic references to the benefit. In Phase I, this database consisted of only benefits that had appeared in the NASA Spinoff publication. The Phase II implementation will continue to record Spinoff material and will also allow for the collection of data that is not published in Spinoff.

3.3.2 Functional Description

Each site will maintain its own benefits on an on-going basis. Additionally, the NASA Scientific and Technical Information Facility (STIF) will continue to load records that pertain directly to articles published in Spinoff. Records are added locally and uploaded to the central computer. Existing records are updated by downloading selected records to the local computer, editing the records, and uploading the records back to the central computer. The functions applicable to this central database are Query, Keyword Search, Update, Print, and View.

3.3.3 Database Elements

The schema for the Space Benefits database - Central and Local - will contain new elements. Refer to Appendix A, Section 1 - n_sp_bene schema - for a detailed list of elements, or Section 2 - Space Benefits Elements Descriptions - for a description of each database element. All new elements for Phase II will be marked with an asterisk in both listings.

3.3.4 Query Space Benefits (Central) Record

a. Input

The user at the local PC will access the central computer from one of the various TUNS menu selections. TUNS will execute the communication package, link the user to the central computer, and prompt the user for his Logon ID. From the Main Menu he will go to the SPACE BENEFITS (CENTRAL) DATABASE MENU where he may select Query by Ranges, Query Space Benefits Record, or Query Geographic Statistics. (See Appendix B.) If the queried data is found, TUNS will process the record selection group through the Pager Program.

The Query by Ranges screen will prompt the user for the following field values:

Please Enter Values For The Fields To Be Queried.

DATE: FROM: _____ TO: _____
ESTIMATED VALUE OF BENEFIT: FROM: _____ TO: _____
ZIP: FROM: _____ TO: _____

The Query Space Benefits Record screen will prompt the user for the following field values:

Please Enter Values For The Fields To Be Queried.

CENTER: (10) _____
TYPE OF BENEFIT: (1) _____
TYPE OF USER: (1) _____
STATE: (2) _____
CITY: (25) _____

The Query Geographic Statistics screen will prompt the user for the following field values:

Please Enter Values For The Fields To Be Queried.

ARC: _____

TVA: _____

SMSA: _____

EDA: _____

COUNTY: _____

CONGRESSIONAL DISTRICT: _____

*3 these are Yes/No;
could default to 'No'*

see p. 90

(See Appendix C.) TUNS will process the above user input through the Pager program.

b. Processing

The Query program is used to select a group of records based on data values in specified fields. The database records that match the query fields will result in a selection group. The selection group will be processed further by the Pager program.

c. Output

The QUERY RECORD SELECTION (Pager) screen will use the following data elements in the 2-line record description.

RECORD NO: DATE: EST TOTAL \$ BENEFIT:

TITLE:

(See Appendix C.) The user may select records for final processing by choosing View, Download, Update, Generate Statistical Report, or Print. View will result in the record being output to screen. Update will result in selected records being extracted and formatted into an ASCII. The record will

be downloaded to the PC for local updating. The Update program will present the user with a data entry screen containing field values for the record selected. The data validation will occur when the user enters the data. The local database will be updated upon completion of screen entries. A function to upload the record will be available to update the central database. Generate Statistical Report will result in fields from selected records being extracted and formatted into an ASCII print for downloading and printing locally. (See Appendix C.) Print will result in fields from selected records being extracted and formatted into an ASCII print file for downloading and printing locally.

3.3.5 Keyword Search of Space Benefits (Central) Records

a. Input

The user at the local PC may access the central computer from one of several TUNS menu selections. TUNS will execute the communication package, link the user to the central computer, and prompt the user for his Logon ID. From the Main Menu, he will go to the SPACE BENEFITS (CENTRAL) DATABASE MENU where he may select KEYWORD SEARCH OF TITLES, KEYWORD SEARCH OF SUMMARY or KEYWORD SEARCH OF TECHNICAL TERMS. (See Appendix B.) The SEARCH DATA CRITERIA screen will prompt the user to enter the desired keywords. The Title, Summary or Technical Terms fields will then be searched for the user's keywords. If the keywords are found, the Pager program will process the record selection group.

b. Processing

The Keyword Search program is used to select a group of records based on the presence of keywords in specified fields. The database records which contain the keywords in these fields will result in a selection group. The selection group will be processed further by the Pager program. The KEYWORD SEARCH DATA ENTRY screen allows the user to input, in free form, up to four keywords along with the relational conditions of AND or OR.

c. Output

The SEARCH RECORD SELECTION (Pager) screen will use the following data elements in the 2-line record description.

RECORD NO: DATE: EST. TOTAL \$ BENEFIT:
TITLE:

(See Appendix C.) The user may select records for final processing: View, Update, or Print. View will result in a record being output to screen. The Update program will present the user with a data entry screen containing field values for the record selected. The data validation will occur when the user enters the data. The local database will be updated upon completion of screen entries. A function to upload the record will be available to update the central database. (See Appendix C.) Print will result in fields from selected records being extracted and formatted into an ASCII print file for downloading and printing locally.

3.3.6 View Space Benefits (Central) Records

a. Input

The user at the local PC may access the central computer from one of several TUNS menu selections. TUNS will execute the communication package, link the user to the central computer, and prompt the user for his Logon ID. From the Main Menu, he will go to the SPACE BENEFITS (CENTRAL) DATABASE MENU where he may select SEARCH OF TITLES, SEARCH OF SUMMARY, SEARCH OF TECHNICAL TERMS or QUERY SPACE BENEFITS RECORDS. (See Appendix B.) The DATA CRITERIA screen will prompt the user to enter desired keywords or field information. The system will search the appropriate field(s) in the Space Benefits (Central) Database for a match. The Pager program will process the record selection group.

b. Processing

The View program will display the database record using the update entry screens. (See Appendix C.) This program will provide the user with view only access so that the user may read the records but may not update them.

c. Output

The RECORD SELECTION (Pager) screen will use the following data elements in the 2-line record description.

RECORD NO: DATE: EST. TOTAL \$ BENEFIT:
TITLE:

(See Appendix C.) The user may select records for final processing by choosing VIEW. VIEW will result in the record being output to screen where the user will have view only access.

3.3.7 Update Space Benefits (CENTRAL) Records

a. Input

The users will perform their updates locally, then upload to the central computer. At the central computer Space Benefits menu, the user will select MAINTAIN SPACE BENEFITS (CENTRAL) RECORDS. The DATA CRITERIA screen will prompt the user to enter desired field information. The MAINTAIN KEYWORD ENTRY screen will prompt the user for the record key of an existing record for updating or for the record key of a new record to be entered. The update function at the Central computer will be limited to STIF and the ISN DBA.

b. Processing

The Update program will perform the database record modifications. This program will present the user with a data entry screen which will contain the field values if the record currently exists, or empty field values if the record is to be newly entered. Updates are made to the database immediately as the user enters the field values. Validation of fields will occur prior to update of the database.

c. Output

The Maintain Screen will prompt the user to enter a record key. The system will display the Data Entry Screen either with data from the selected record or with blank field values ready for data entry. Update will result in the record being output to a screen where the user can make changes. (See Appendix C.)

3.3.8 Print Space Benefits (Central) Record from Menu

SPACE BENEFITS (CENTRAL)

a. Input

The user may go to the SPACE BENEFITS (CENTRAL) MENU from the central computer's Main Menu and select PRINT TU PROJECTS RECORD. (See Appendix B.) The PRINT RECORD SELECTION screen will prompt the user to enter the record number of the record to be printed. (See Appendix C.)

b. Processing

The Print program is a general utility used to print reports, correspondence, and individual records. Because the record to be printed originates at the central computer, TUNS will format the selected records into an ASCII print file and download the file to the local computer for printing. The user will be returned to the SPACE BENEFITS (CENTRAL) Menu after downloading the file.

c. Output

Specific fields from the selected record will be formatted into a report and converted into an ASCII file. The report will be displayed on the screen. An Fx-DOWNLOAD key will be pressed by the user, and the communication package will be executed and the file transmitted to the local computer. The ASCII file at the local PC will be ready for printing by the user.

3.3.9 Print Space Benefits (Central) Records from Pager

a. Input

The user may select SPACE BENEFITS (CENTRAL) DATABASE from the central computer Main Menu. The user may select KEYWORD SEARCH OF TITLES, KEYWORD SEARCH OF SUMMARY, KEYWORD SEARCH OF TECHNICAL TERMS or QUERY SPACE BENEFITS RECORDS from the SPACE BENEFITS (CENTRAL) MENU. (See Appendix B.) The DATA CRITERIA screen will prompt the user to enter the desired keywords or field information. The system will search the appropriate field(s) in the Space Benefits Database for a match. If a match is found, the Pager program will process the record selection group.

b. Processing

The Print program is a general utility used to print reports, correspondence, and individual records. Because the record to be printed originates at the central computer, TUNS will format the selected records into an ASCII print file. The report will be displayed on the screen, and an Fx-DOWNLOAD key pressed when the report is to be printed. The file will be downloaded to the local computer for printing. The user will be returned to the SPACE BENEFITS (CENTRAL) Menu for further actions.

c. Output

The RECORD SELECTION (Pager) screen will use the following data elements in the 2-line record description.

RECORD NO:	DATE:	EST. TOTAL \$ BENEFIT:
TITLE:		

(See Appendix C.) The user may select records for final processing by choosing F3-PRINT. (See Appendix C.) F3-PRINT will result in specific fields from the record selection group being formatted into a report and converted to an ASCII print file. The communications package will be executed and the file transmitted to the local computer where the ASCII file may be printed by the user.

3.3.10 Delete Space Benefits (Central) Records

a. Input

The user will select DELETE SPACE BENEFITS (CENTRAL) from the SPACE BENEFITS (CENTRAL) MENU. The DELETE KEYWORD ENTRY screen will prompt the user for the record key of the existing record to be deleted.

b. Processing

The Delete program will search the Space Benefits (Central) database for the record matching the key entered on the data entry screen. The first screen of the record will be displayed using the View format. The user will be requested to verify that this record should be deleted. If the response is "Y", the record is removed from the database immediately.

c. Output

The first Space Benefits (Central) database VIEW screen will be displayed for user verification of the delete request. When the user verifies the delete, the record is removed from the central database.

3.4 CENTRAL SITE DATABASES: NTR/EVALUATION SUMMARY (CENTRAL)

3.4.1 General Description

The NTR/Evaluation Summary Central Database will be a new database residing on the central computer. This database will contain information from the three local NTR databases (NTR Short Form, NTR Evaluation, and NTR Long Form). Included in this record type are fields for the NTR's title, the center the NTR comes from, the origin of the NTR, the final classification of the NTR, the NTR evaluation, and an abstract of the NTR.

3.4.2 Functional Description

Each site will maintain its own series of NTR records locally on an on-going basis. On a periodic basis, each site will invoke an upload function which will pull data from the previously mentioned databases, format the information, and send it to the central computer. Once the data has been sent to the central computer, it will be available for queries and searches by all members of the TU community. When local NTR information is updated, the upload function is used to update this information in the central database. The functions applicable to this central database will be Query, Keyword Search, Print, and View.

3.4.3 Database Elements

The schema for the NTR/Evaluation Summary (Central) database will be expanded from that used at the local level. The NTR record on the local database will be combined with pertinent field information from the NTR Short Form, the NTR Long Form record, and the NTR Evaluation record to form the NTR/Evaluation Summary (Central) record. Refer to Appendix A, Section 1 - ntr cent schema-for a detailed list of elements or Section 2 - NTR/Evaluation Summary (Central) Elements Descriptions - for a description of each database element. All new elements for Phase II will be marked with an asterisk in both listings.

3.4.4 Query NTR/Evaluation Summary (Central) Record

a. Input

At the local PC the user may select ACCESS NTR/EVALUATION SUMMARY (CENTRAL) DATABASE from the NTR Menu 2(1)(1). TUNS will execute the communications package, link the user to the central computer, and prompt the user for his Logon ID. At the Main Menu the user will select NTR/EVALUATION SUMMARY (CENTRAL). (See Appendix B.) The user may select Query from the NTR/Evaluation Summary (Central) Menu located at the central computer. The QUERY RECORD SELECTION CRITERIA screen will read as follows:

Please enter Values for the NTR Fields to be Queried.

NTR NO: 9

TUO Final Classification: 3

Patent Decision: 16

Contractor Decision: 16

Center: 10

Date Entered System: From 10 To 10

(See Appendix C.) If a match is found, TUNS will process the user criteria through the Pager program.

b. Processing

The Query program is used to select a group of records based on data values in specified fields. The database records that match the query fields will result in a selection group. The selection group will be processed further by the Pager program.

c. Output

The QUERY RECORD SELECTION (Pager) screen will use the following data elements in the 2-line record description.

NTR NO:

PATENT DECISION:

TITLE:

DATE ENTERED SYSTEM: FROM TO

(See Appendix C.) The user may view the records selected or download the records to his local PC. View will result in a record being output to a screen. Download will result in fields from the selected records being extracted and formatted into an ASCII file. This file will be downloaded to the local PC where the user can manipulate the data.

3.4.5 Keyword Search of NTR/Evaluation Summary (Central) Records

a. Input

The user may select NTR/EVALUATION SUMMARY (CENTRAL) DATABASE from the central computer Main Menu. (See Appendix B.) The user may select either KEYWORD SEARCH OF TITLES or KEYWORD SEARCH OF TEXT from the NTR/Evaluation Summary (Central) Menu. (See Appendix B.) The SEARCH DATA CRITERIA screen will prompt the user to enter the desired keywords. The system will search the appropriate field(s) in the NTR/Evaluation Summary (Central) database for the user's keywords. The field to be searched will depend on whether "Title" or "Text" was chosen. If a match is found, the Pager program will process the record selection group.

b. Processing

The Keyword Search program is used to select a group of records based on the presence of keywords in specified fields. The database records which contain the keywords in these fields will result in a selection group. The selection group will be processed further by the Pager program. The KEYWORD SEARCH DATA ENTRY screen allows the user to input, in free form, up to four keywords along with the relational conditions of AND or OR.

c. Output

The SEARCH RECORD SELECTION (Pager) screen will use the following data elements in the 2-line record description.

NTR NO:

PATENT DECISION:

TITLE:

DATE ENTERED SYSTEM: FROM_____ TO_____

(See Appendix C.) The user may select records for final processing by choosing: View, Update, or Download. View will result in a record being output to a screen. Download will result in the fields from the selected records being extracted and formatted into an ASCII file. From the local PC, the user can manipulate the data.

3.4.6 View NTR/Evaluation Summary (Central) Records

a. Input

The user may select NTR/EVALUATION SUMMARY (CENTRAL) DATABASE from the central computer Main Menu. (See Appendix B.) The user may select KEYWORD SEARCH OF TITLES, KEYWORD SEARCH OF TEXT or QUERY NTR/EVALUATION SUMMARY (CENTRAL) RECORDS from the NTR/Evaluation Summary (Central) Menu. (See Appendix B.) The DATA CRITERIA screen will prompt the user to enter the desired keywords or field information. The system will search the appropriate field(s) in the NTR/Evaluation Summary (Central) database for a match. If a match is found, the Pager program will process the record selection group.

b. Processing

The View program will display the database record using the UPDATE DATA ENTRY screens. This program will provide the user with view only access so that the user may read the records but may not update them.

c. Output

The RECORD SELECTION (Pager) screen will use the following data elements in the 2-line record description.

NTR NO:

PATENT DECISION:

TITLE:

DATE ENTERED SYSTEM: FROM_____ TO_____

(See Appendix C.) The user may select the records for final processing by choosing View. View will result in the record being output to a screen with view only access for the user.

3.4.7 Updating of NTR/Evaluation Summary (Central) Records

a. Input

The input for updating the NTR/Evaluation (Central) Database will be the transaction file created when the TUO releases an NTR to the central database. This file will be a formatted ASCII file. See Appendix A (ntr_cent) for a list of the elements.

b. Processing

The update process will be initiated when the NTR transaction file is uploaded to the central computer. Transaction records which have an NTR number identical to a record on the NTR central database will be processed as updates where all fields in the transaction record will overlay the central database record. Transaction records which do not have a matching NTR number on the NTR/Evaluation Summary (Central) Database will be processed as new records and added to the database.

c. Output

The NTR update process will result in an updated NTR/Evaluation Summary (Central) Database.

3.4.8 Transmitting NTR Evaluation Summary Records From The Local Computer to the NTR Central Database

a. Input

The user located at the local computer will select RELEASE NTR RECORDS TO CENTRAL DATABASE from the NTR FORM MENU 2(1)(1). (See Appendix B.) BROWSE RECORD SELECTION screen will prompt the user to enter the NTR number of the desired record. The Pager program will process the record selection group.

b. Processing

The TRANSMIT function will extract the appropriate fields from the selected NTR record(s) along with the associated NTR Evaluation record(s) and the NTR Long Form record(s). This transmission will occur only if the NTR Short Form record indicates a "Y" in the Release To Central DB field and the date released to central database field is blank. The extracted data will be combined into one record, placed in an ASCII file, transmitted to the central computer, and written to a sequential transaction file for processing at any time.

c. Output

The RECORD SELECTION (Pager) screen will use the same data elements at the local level as those implemented during Phase I. The user may select records for final processing by choosing FX-RELEASE. (See Appendix C.) FX-RELEASE will result in specific field data from the NTR records, their associated NTR Evaluation records, and NTR Long Form records being extracted and converted to an ASCII file format. The communication package will be executed, and the user will automatically be linked to the central computer where he will enter his Logon ID. The ASCII file will be placed in a designated location at the central computer, and the file will be processed at any time.

3.4.9 Download NTR/Evaluation Summary (Central) Records to the Local PC

a. Input

The user will select the NTR/EVALUATION SUMMARY (CENTRAL) DATABASE from the central computer Main Menu. (See Appendix B). The user may select KEYWORD SEARCH OF TITLES, KEYWORD SEARCH OF TEXT or QUERY NTR (CENTRAL) RECORDS from the NTR/EVALUATION SUMMARY (CENTRAL) MENU. (See Appendix B.) The DATA CRITERIA screen will prompt the user to enter the desired keywords or field information. The system will search for the appropriate field(s) in the NTR/Evaluation Summary (Central) database for a match. If a match is found, the Pager program will process the record selection group.

b. Processing

The Download program will extract the NTR number, NTR date, title, abstract, evaluation, and patent status data from the selected records. This data will be formatted into acceptable format for transmission to the local PC. The formatted file will be placed at a pre-determined location on the local PC's hard disk where the user may manipulate the data.

c. Output

The RECORD SELECTION (Pager) screen will use the following data elements in the 2-line record description.

NTR NO:

PATENT DECISION:

TITLE:

DATE ENTERED SYSTEM: FROM_____ TO_____

(See Appendix C.) The user may select records for final processing by choosing FX-DNLOAD. TUNS will extract designated fields from the record selection group and convert these fields into ASCII file format. The communications package will be executed and the file transmitted to the local computer.

3.4.10 Delete NTR/Evaluation Summary (Central)

a. Input

The user will select DELETE NTR/EVALUATION SUMMARY (CENTRAL) from the NTR/EVALUATION SUMMARY menu. The DELETE KEYWORD ENTRY screen will prompt the user for the record key of the record to be deleted.

b. Processing

The Delete program will verify that the user requesting this function has the password that matches the record he wishes to delete. If the requestor is authorized to use this function, the NTR/Evaluation Summary (Central) database will be searched for the record matching the key entered on the data entry screen. The first screen of the record will be displayed using the View format and the user will be requested to verify the delete of this record. If the user responds with a "Y", the record is removed from the database.

c. Output

The first NTR/Evaluation Summary (Central) database VIEW screen will be displayed so that the user may verify the delete request. When the user verifies the delete, the record is removed from the central database immediately.

3.5 NEW TECHNOLOGY REPORT (NTR) SHORT FORM

3.5.1 General Description

The New Technology Report Short Form database, a new local database for Phase II, is a condensed version of selected fields from the original NTR database (implemented in Phase I) and the NTR Tracking database (also implemented in Phase I). The Short Form will consist of two screens. Typical fields include title, brief description, keywords, contract number, innovator, should the NTR be released to the central computer, and various tracking milestones. The reason for the implementation of this database is that the Short Form requires less mandatory information than the current long form. As a result, TUOs will be able to build a database of NTRs more quickly. It is not the intent of this database to diminish the amount of information stored for each NTR. Once the Short Form is completed, the offices will also be encouraged to complete the longer form and the tracking record.

3.5.2 Functional Description

Each site will maintain its own NTR records. When the user is ready to input a new NTR, he will do so in the NTR Short Form database. The user may enter five innovators in the Short Form. If he wishes to enter more than five innovators, he enters "Y" in the More Innovators field and an NTR/Innov database is linked for data entry. As he reaches the field that requires contract information, he will have the option to verify the existence of a contract. (If he chooses to verify a contract, the particular contract must exist in the Contract/Grant database before he can proceed. If he chooses not to verify a contract, an NTR can be recorded in this database without the contract's prior existence). When he reaches the end of the record, the system will give him the option to complete the Long Form or the Tracking Form. Functions applicable to this database are Browse, Keyword Search of Keywords, Query, Maintain, Print, Transmit/Receive NTR Records, Mark for Archive, and Mark for Delete.

3.5.3 Database Elements

The schema for New Technology Report (NTR) Short Form will be new for Phase II. Refer to Appendix A, Section 1- n_sht schema - for a detailed list of elements, or Section 2 - NTR Short Form Elements Description - for a description of each database element. All new elements for Phase II will be marked with an asterisk in both listings.

3.5.4 Browse By NTR Number

a. Input

The user will select Browse from the New Technology Report Short Form menu. After he makes this selection, the following Browse screen will appear:

PLEASE ENTER THE NTR NUMBER.

NTR NUMBER: _____

The record selection criteria will be processed by the Pager program.

b. Processing

The browse program is used to obtain a selected group of records which will be processed further by the Pager program. The user may begin the browse process by selecting a starting point in the database. The Pager program will list all records in a 2-line description beginning with the selected starting records and continuing to the end of the database. This database will be sorted in ASCII sequence on the NTR Number field. If no records were selected, the following error message will appear: NO RECORDS WERE SELECTED <ENTER>. Those records listed by the Pager program may be selected for further processing: View, Print, Update. These programs will be executed from the Pager screen as implemented in Phase I.

c. Output

The data elements in the 2-line record description shown on the Pager screen are the following:

NTR NUMBER: _____ NTR DATE: _____
TITLE: _____

The user will select records for final processing: View, Print, Update. View will result in the record(s) being output to a screen. Print will result in user access to the PRINTER SELECTION screen. This screen will allow the user to choose a printer for output. Update will result in the record(s) being output to the screen where the user may make field changes to the record.

3.5.5 Keyword Search of Titles, Description, Keywords, Innovators

a. Input

The user selects Keyword Search of Title, Keyword Search of Description, Keyword Search of Innovators, or Keyword Search of Keywords from the New Technology Report Short Form menu. The Search Data Criteria screen will prompt the user to enter the desired keywords. The system will search the appropriate fields for the user's keywords. If a match is found, the Pager program will process the record selection group.

b. Processing

The Keyword Search program is used to select a group of records based on the presence of keywords in specified fields. The database records which contain the keywords in these fields will result in a selection group. The selections group will be processed further by the Pager program. The KEYWORD SEARCH DATA ENTRY screen allows the user to input, in free form, up to four keywords along with the relational conditions of AND or OR.

c. Output

The SEARCH RECORD SELECTION (Pager) screen will use the following data elements in the 2-line record description:

NTR NUMBER: _____ CONTRACT NO: _____
TITLE: _____

3.5.6 Query NTR Short Form

a. Input

The user selects Query NTR Short Form from the NTR Short Form menu. The QUERY: RECORD SELECTION CRITERIA screen will prompt the user for the following fields values:

PLEASE ENTER VALUES FOR THE FIELDS TO BE QUERIED:

NTR Number: _____
NTR Date: _____
Date Received in TUO: _____
Date NTR Summary to Central Database: _____
Date To Evaluator: _____
Date From Evaluator: _____
Final Classification: _____

b. Processing

The Query program will select a group of records based on data values in specified fields. The database records that match the query fields will result in a selection group. The selection group will be processed further by the Pager program.

c. Output

The QUERY RECORD SELECTION (Pager) screen will use the following data elements in the 2-line description:

NTR NUMBER: _____ CONTRACT NO: _____
TITLE: _____

3.5.7 Maintain NTR Short Form

a. Input

The user will select Maintain NTR Short Form from the NTR Short Form Menu. The Maintain Keyword Entry screen will prompt the user for the NTR number. The system will display the Data Entry Screen either with the existing data from the selected record or with blank field values ready for data entry.

b. Processing

The record will be updated upon completion of screen entries. Data validation will occur as each field is completed. The user will have the option to verify the contract number and to enter more than five innovators.

c. Output

The database will be updated upon completion of screen entries.

3.5.8 Print NTR Short Form

a. Input

The user will select Print NTR Short Form Detailed Report from the NTR Short Form menu. After making this selection, the standard Record Selection screen will prompt the user for the following:

PLEASE ENTER THE NTR NUMBER OF THE DESIRED RECORD.

NTR NUMBER: _____

b. Processing

Is this different from others in TMS?

This program employs the Genprint program, which is a general print utility used to print the individual record selected by the user. After the user enters the NTR number, the program searches for the record. If the record is found, the standard printer selection screen will prompt the user for the desired printer and the report will be sent to that location for printing. If no records were selected, the following message will appear: NO RECORDS SELECTED <ENTER>.

c. Output

This report will be compiled into a pre-determined format and output to the printer.

3.5.9 Upload NTR Information to Summary/Evaluation Central Database

a. Input

The user will select Upload NTR Information to Summary/Evaluation Central Database.

b. Processing

For each NTR record indicated, the program will pull selected field information from the NTR Short Form database, the NTR Long Form database, and the NTR Evaluation database.

c. Output

The output of the "Upload" file will be the formatted ASCII file that is ready to be sent to the central computer.

3.5.10 Mark For Archive

a. Input

The user will select Mark for Archive from the NTR Short Form menu. The KEYWORD ENTRY screen will prompt the user for the number of the NTR to be archived.

b. Processing

The archive program will search the NTR Short Form database and find the record that matches the entered NTR number. It will then search the NTR Long Form database, the NTR Tracking database, and the NTR Evaluation database for the same NTR number. Once it has found all related records, it will put a flag that indicates the records are to be archived. These records will be archived once the System Administrator runs the Archive Marked Records function.

c. Output

The user will receive the following message:

THE INDICATED RECORD AND ALL RELATED RECORDS HAVE BEEN MARKED FOR ARCHIVE.

If the record(s) has not been found, the user will receive the following message:

NO RECORDS FOUND.

3.5.11 Mark For Delete

a. Input

The user will select Mark for Delete from the NTR Short Form menu. The KEYWORD ENTRY screen will prompt the user for the number of the NTR to be deleted.

b. Processing

The delete program will search the NTR Short Form database and find the record that matches the entered NTR number. It will then search the NTR Long Form database, the NTR Tracking database, and the NTR Evaluation database for the same NTR number. Once it has found all related records, it will put a flag that indicates the records are to be deleted. These records will be deleted, once the System Administrator runs the Delete Marked Records function.

c. Output

The user will receive the following message:

THE INDICATED RECORD AND ALL RELATED RECORDS HAVE BEEN MARKED FOR DELETE.

If the record(s) has not been found, the user will receive the following message:

NO RECORDS FOUND.

3.6 NEW TECHNOLOGY REPORT LONG FORM

3.6.1 General Description

The New Technology Report Forms database, already implemented in Phase I, will be altered in Phase II, in accordance with the creation of the NTR Short Form database. This database will no longer be used for initial creation of an NTR record. Instead, it will be used to hold the long text fields which provide very detailed descriptions pertaining to the new technology. Many of the fields that were previously on this form have been moved to the new Short Form.

3.6.2 Functional Description

Each site will maintain its own NTRs on an on-going basis. However, when NTRs are initially put into the system, they are done so on the Short Form database, not the Long Form. When the Short Form is complete, the system will ask if the user would like to continue with the Long Form. If the user indicates yes, the Long Form will appear on the screen, ready for data entry.

3.6.3 Database Elements

The schema for New Technology Report (NTR) Forms has been modified from Phase I. Refer to Appendix A, Section 1 - NTR Forms for a detailed list of elements or Section 2 - NTR Forms Elements Description - for a description of each database element. All new elements for Phase II will be marked with an asterisk in both listings.

3.7 NEW TECHNOLOGY TRACKING

3.7.1 General Description

The New Technology Tracking database, already implemented in Phase I, will be altered in Phase II, in accordance with the creation of the NTR Short Form database. This database is used to keep track of an NTR while it goes through the process toward publication. Many of the fields that were previously on this form have been moved to the new Short Form.

3.7.2 Functional Description

Each site will maintain its own NTRs on an on-going basis. However, when NTRs are initially put into the system, they are done so on the Short Form database. When the Short Form is complete, the system will ask if the user would like to continue with the Tracking database. If the user indicates yes, the Tracking database will appear on the screen, ready for data entry.

3.7.3 Database Elements

The schema for New Technology Reports (NTR) Tracking has been modified from Phase I. Refer to Appendix A, Section 1 - NTR Tracking for a detailed list of elements or Section 2 - NTR Tracking Elements Description - for a description of each database element. All new elements for Phase II will be marked with an asterisk in both listings.

3.8 NTR EVALUATION FORMS

3.8.1 General Description

The NTR Evaluation Database, already implemented in Phase I, will be enhanced to allow for the transmission of NTR Evaluations from Stanford Research Institute (SRI) and COSMIC to TUOs. This database is used to record each NTR's evaluation history. Included in this database are fields for the title of the NTR, the date the NTR was received by SRI and COSMIC, the expert who reviewed the NTR, and the final classification the NTR was given. Additionally, the "Evaluation Report" field will be expanded by 17 lines and a "NTR Title" field will be added to the Aging report.

3.8.2 Functional Description

SRI and COSMIC will transmit a flat file containing all the NTR evaluations to the central computer. SRI and COSMIC will send an electronic mail message to notify the TUO that the record has been evaluated and is ready to be downloaded to that site's local computer. The TUO then downloads the evaluation record into the local database.

3.8.3 Database Elements

The schema for the NTR Evaluation Forms database has been modified since Phase I. Refer to Appendix A, Section 1 - ntr_eval schema - for a detailed list of elements or Section 2 - NTR Evaluation, Elements Description - for a description of each database element. All new elements for Phase II will be marked by an asterisk in both listings.

3.8.4 Uploading of NTR Evaluation Record to the Central Computer by SRI/COSMIC

a. Input

The user will access Menu 2(1)(2), NTR EVALUATION FORM MENU. From this menu he will select TRANSMIT NTR EVALUATION FORMS TO TUO. (See Appendix B.) The RECORD SELECTION screen will prompt the user to enter the record selection criteria to be processed by the Pager program. The user will select desired records and process these records by pressing Fx-UPLOAD function key option. After the user has pressed Fx-UPLOAD, the selected records are converted into an ASCII format for transmission. The communications package will be initiated and SRI/COSMIC linked to the central computer. The Logon screen at central computer will prompt the user to enter his logon ID. The central computer Main Menu will appear. The user will select NTR EVALUATION Process, then UPLOAD EVALUATION REPORT TO CENTRAL COMPUTER from the subsequent menu. (See Appendix B.)

b. Processing

Upon completion of the evaluation report, SRI/COSMIC will upload selected NTR Evaluation record(s) to the central computer for retrieval by the TUOs. The fields of the selected records from the Browse Pager screen will be converted to an ASCII file. This file will be transmitted to the central computer and will be stored in a data set designated for the evaluation reports. The Site ID from the TUO is contained in the NTR Evaluation record for identification. At the completion of this process, the SRI user will be returned to the central Main Menu. After the upload process has been completed, SRI or COSMIC will notify the TUO who originated the NTR record.

c. Output

The ASCII file will be output from SRI or COSMIC to the designated location in the central computer. After transmission is completed, SRI or COSMIC will notify the TUO that the NTR record(s) has been evaluated and is ready to be picked up at the central computer. (See Appendix D.)

3.8.5 TUO Retrieval of NTR Evaluation Record from the Central Computer

a. Input

The user will access Menu 2(1)(2), NTR EVALUATION FORM MENU. From this menu, he will select RETRIEVE NTR EVALUATION FORMS FROM SRI/COSMIC. (See Appendix B.) The communications package will be initiated and the TUO will be linked to the central computer. The Logon screen at the central computer will prompt the user to enter his logon ID. The central computer's Main Menu will appear. The user will select NTR EVALUATION PROCESS from the Main Menu, then DOWNLOAD EVALUATION REPORT TO TUO from the subsequent menu. (See Appendix B.)

b. Processing

SRI or COSMIC will notify the TUO that an NTR Evaluation record has been transmitted to the central computer and is ready to be picked up. The TUO user will execute the series of menu selections described above in Section a. The selections will take him to the central computer where he may initiate the download process. The central Evaluation File will be queried and all records which have a site-ID equal to that of the TUO will be extracted for transmission to the TUO. Once the file has been transmitted to the user's local PC, the transmitted record(s) will be deleted from the central computer data set. The TUO may then load the ASCII evaluation file into the Evaluation database on his local system, or he may edit the file for printing. The TUO user will be returned to the central computer Main Menu.

c. Output

Selected records from the ASCII file will be output from the evaluation data set at the central computer to the local TUO. The transmitted records will be deleted from the evaluation data set.

3.9 CONTRACT/GRANT ADMINISTRATION

3.9.1 General Description

The Contract/Grant Database, already implemented in Phase I, will be enhanced to make the editing of the letter specification file easier. Additionally, a report to list Potential Reportable Items will be added. The Contract/Grant Database is used to record detailed information about the contracts and grants that a TUO monitors. The database is also used to generate standard correspondence to remind contractors and grantees of their new technology reporting obligations. The letter specification file is a file that is generated every time standard correspondence is run. This enhancement will provide users with a 2-line description of each letter to be generated. Currently the letter specification file can only be edited with the DOS line editor, EDLIN.

Potential Reportable Items are items indicated by a contractor or grantee that have the potential to become NTRs. These are recorded in the Contract Potential Reportable Item Database, which is related to Contract/Grant Database.

3.9.2 Functional Description

Each site will continue to maintain its Contract/Grant Database just as it did in Phase I. During standard correspondence generation, a prompt will ask the user if the letter specification file should be edited. If the specification file is to be edited, the entire file will be displayed as a series of 2-line record descriptions. From this list specific letters which should not be printed are selected. After editing, all letters not selected will print. Each time the standard correspondence program is run, a new specification file is created. In between letter generation, the most recent specification file is stored. This stored file can be retrieved and re-edited should the need to reprint letters arise.

The new Contract Potential Reportable Item report will allow the generation of all potential reportable items associated with a particular contract number.

3.9.3 Database Elements

There will be no changes to the current schema in the Contract/Grant database.

3.9.4 Edit Letter Specification File

a. Input

The user will initiate the correspondence function as before by going to Menu 2(2) CONTRACT/GRANT NEW TECHNOLOGY ADMINISTRATION and selecting GENERATE STANDARD CORRESPONDENCE. With this menu selection TUNS will search the Contract/Grant database and locate those letters requiring correspondence. Two files will then be created, a letter specification file listing all letters to be printed, and a null file for future inclusion of letters that the user will choose not to print. The user will be asked if he wants to edit this letter specification file. If he responds "yes", TUNS will call a special program similar to the Pager program. A "no" response will cause the letters to begin printing with no change to the existing files.

b. Processing

Users will generate standard correspondence for the Contract/Grant database through a series of menu selections as implemented during Phase I. During Phase I if a user chose the menu selection GENERATE STANDARD CORRESPONDENCE, a letter specification file was created to identify which letters would be printed before the print process actually began. During Phase II, a new program will allow the user to edit the letter specification file without using the EDLIN line editor. After Phase II implementation when GENERATE STANDARD CORRESPONDENCE is selected, TUNS will create two files: (1) the letter specification file containing letters determined to be required after searching the Contract/Grant database, and (2) the letter null file which will contain a listing of those letters which the user chooses not to print. Initially, the letter delete file will be blank until the user edits the letter specification file and marks with an asterisk (*) those letters which will not be printed.

When the user elects to edit the specification file, a two line description of each letter will be displayed on the screen in a format similar to the Pager output. The letter delete file will be read along with the specification file, and any record with a key on the letter delete file will be marked with an asterisk (*). The asterisk signifies that the specific letter will not be printed when the letters are processed for printing. The user may remove the asterisk from any record or may add an asterisk to any record. When the specification file edit function is terminated, a new letter delete file is created from the records marked by an asterisk. The user may elect to re-print the letters, re-edit the specification file, or terminate the process.

c. Output

The pager program developed to display the letter specification file will display data elements in the 2-line letter description as follows:

CONTRACT NO: (15) LETTER NO: (3) YR: (4) FOLLOWUP: (1)
CPRI: (15) (15) (15) (15)

(See Appendix C.) The user will be able to view six 2-line letter descriptions on a screen and choose which letters should not print. Letters which should not be printed will be marked with an asterisk (*). Letters marked with an asterisk will be written to the letter delete file. The letter specification file will remain unchanged.

3.9.5 Print or Reprint Letters Generated

a. Input

After the letter specification file has been created, the user may print the file, edit and print the file, or reprint the file. When the user chooses to reprint the file, it may again be edited before printing. This process will begin with a screen asking the user if he wants to reprint the letter specification file. The user will receive another screen asking him if he wants to print or edit the letter specification file. If the user chooses Edit, he will be presented with the most recent letter specification file for editing. He will mark with an asterisk (*) those letters which will

not be printed. After editing or if the user chooses Print, the letter specification file and the letter delete file will be matched by Contract Number and Letter Number. Matches between these two files will be the letters that will NOT print.

b. Processing

The Letter Specification file and the Letter Delete file will automatically be created when the user selects GENERATE STANDARD CORRESPONDENCE from a menu. The user may wish to print this file without editing in which case the letters will print. The user may wish to edit the file before printing, in which case the user will be presented with the most recent letter specification file for editing. If for some reason some of the letters do not print correctly (e.g., because of a printer paper jam), the user may wish to reprint the letters. In this case, the user may wish to edit the current Letter Specification file to eliminate those letters which printed previously. The new print program will match the Letter Specification file with the Letter Delete file by Contract Number and Letter Number. Matches will identify those letters which should NOT print. Letters which are not in the Letter Delete file will be sent to the printer selected by the user. The user will be automatically returned to Menu 2(2) upon completion of the print process.

c. Output

The user will receive the PRINTER SELECTION screen. On this screen he may choose a printer for output. Those letters specified for printing will be output to the selected printer. The user will be returned automatically to Menu 2(2) upon completion of the print process.

3.9.6 Delete Correspondence Tracking Record

a. Input

The user will initiate the Delete Correspondence Tracking Record by selecting DELETE CORRESPONDENCE TRACKING RECORD from Menu 2(2)(8), TRACK CONTRACT/GRANT CORRESPONDENCE STATUS MENU. The RECORD SELECTION screen will prompt the user to enter the Contract/Grant Number for the Correspondence Tracking record to be deleted.

b. Processing

During Phase II, the DELETE CORRESPONDENCE TRACKING RECORD function will be enhanced. This enhancement will involve inclusion of a function that will automatically reset the flags that appear on the last screen of the Contract/Grant record. This automatic reset will insure that the flags are returned to the values they held before the contract tracking record was created. Of course, the DELETE CORRESPONDENCE TRACKING RECORD will delete the tracking record as implemented in Phase I, but the Phase II enhancement will negate the need for the user to reset the flags on the last screen manually .

c. Output

A message will appear at the bottom of the screen stating that the Contract Correspondence Tracking record has been deleted. TUNS will automatically reset the flags on the last screen of the Contract/Grant record. This reset will return the flags to the values they held before this tracking record was created. The user will remain at the same screen to enter the Contract/Grant number of another tracking record to be deleted. If the user does not wish to repeat the procedure, he may exit from this screen.

3.9.7 Generate Contract/Grant Potential Reportable Items (CPRI) Report by Contract Number

a. Input

The user will initiate this enhancement by going to Menu 2(2), CONTRACT/GRANT NEW TECHNOLOGY (NT) ADMINISTRATION and selecting GENERATE CONTRACT/GRANT POTENTIAL REPORTABLE ITEMS BY CONTRACT NUMBER. (See Appendix B.) The Print Keyword Entry screen will prompt the user to enter the number of the desired Contract. After waiting for TUNS to execute this process, the user will select the output printer from the Printer Selection Screen.

b. Processing

The purpose of this function is to list all CPRI's associated with one contract. The user will input the number of the desired contract, and TUNS will search the Contract/Grant Potential Reportable Item (CPRI) database for all records that match that contract number. The CPRI records will then be sorted in ASCII sequence by CPRI number and formatted into the preset report form. (See Appendix D.) This report will then be output to the printer selected by the user.

c. Output

Once the output printer has been selected by the user, the Contract/Grant Potential Reportable Item Report by Contract Number will be printed. (See Appendix D.)

3.10 ORGANIZATION DATABASE

3.10.1 General Description

The organization database, already implemented in Phase I, will be expanded to include the Browse, Query, and Print functions. This database is used to record information about each NASA organization within a particular facility. Included in this record type are fields for organization code, section, branch, division, and mail code. This database provides the addresses for letters that are automatically generated for people doing NASA in-house research. This database is linked to the Research Technical Resume Database through the organization code field.

3.10.2 Functional Description

Each site will maintain its own organization database on an on-going basis. Each site will now have the ability to Browse, Query, and Print the contents of this database.

3.10.3 Database Elements

There will be no changes to the current schema in the NASA Organization Database.

3.10.4 Browse Organization Database

a. Input

The user will select BROWSE, from the Menu 2(6)(3), ORGANIZATION DATABASE. This menu will be updated to include: BROWSE BY ORGANIZATION CODE. (See Appendix B.) After making this selection, the following Browse screen will appear to prompt the user as follows:

PLEASE ENTER THE ORGANIZATION CODE.

ORGANIZATION CODE: (6)

(See Appendix C). The record selection criteria will be processed by the Pager program.

b. Processing

The Browse program is used to obtain a selected group of records which will be processed further by the Pager program. The user may begin the browse process by selecting a starting point in the database. The Pager program will list all records in a 2-line record description beginning with the selected starting record and continuing to the end of the database. This database will be sorted in ASCII sequence on the Organization Code field. If no records were selected, the following error message will appear: NO RECORDS WERE SELECTED <ENTER>. Those records listed by the Pager program may be selected by the user for further processing: View, Print, Update. These programs will be executed from the Pager screen as implemented during Phase I.

c. Output

The data elements in the 2-line record description shown on the Pager screen will be as follows:

ORGANIZATION CODE (6) TITLE (15)
SECTION (60)

(See Appendix C.) The user will select record for final processing: View, Print, Update. View will result in the record(s) being output to a screen. Print will result in user access to the PRINTER SELECTION screen. This screen will allow the user to choose a printer for output. Update will result in the record(s) being output to the screen where the user may make field changes to the record. (See Appendix C.)

3.10.5 Query Organization Database

a. Input

The user will select QUERY from Menu 2(6)(3), ORGANIZATION DATABASE. This menu will be updated to include QUERY ORGANIZATION RECORD. (See

Appendix B.) After making this selection, the standard QUERY DATA CRITERIA screen will appear. The following fields will be used in the query:

TITLE: _____ (15)

SECTION:

_____ (60)

BRANCH:

_____ (60)

DIVISION:

_____ (60)

MAIL CODE: _____ (10)

(See Appendix C.) The user selection criteria will be processed by the Pager program.

b. Processing

The Query program is used to select a group of records based on data values in the above specified fields. The database records that exactly match the query fields input by the user will result in a selection group. The selection group will be processed by the Pager program in the standard 2-line record description format on the Pager screen. If no record(s) was selected, the following error message will appear: NO RECORDS WERE SELECTED <ENTER>. Those records listed by the Pager program may be selected by the user for further processing: View, Print, Update. These programs will be executed from the Pager screen as implemented during Phase I.

c. Output

The data elements in the 2-line Pager description will be as follows:

ORGANIZATION CODE _____ (5) TITLE _____ (15)

SECTION _____ (60)

(See Appendix C.) The user will select records for final processing: View, Print, Update. View will result in the record(s) being output to a screen. Print will result in the user PRINTER SELECTION screen. This screen will allow the user to choose a printer for output. Update will result in the record(s) being output to the screen where the user may make field changes to the record. (See Appendix C.)

3.10.6 Print Records from Organization Database

a. Input

The user will select PRINT from the Menu 2(6)(3), ORGANIZATION DATABASE. This menu will be updated to include: PRINT ORGANIZATION DETAILED REPORT. (See Appendix B.) After making this selection, the standard RECORD SELECTION screen will prompt the user as follows:

PLEASE ENTER THE ORGANIZATION CODE OF THE DESIRED RECORD.

ORGANIZATION CODE: (6)

The standard PRINTER SELECTION screen will prompt the user to select a printer for output. (See Appendix C.)

b. Processing

This function employs the Genprint program, which is a general print utility used to print the individual record selected by the user. The user enters the Organization Code (record key) when prompted at the PRINT KEYWORD ENTRY screen to identify the desired record for printing. If no records were selected, the following error message will appear: NO RECORDS WERE SELECTED <ENTER>. The standard PRINTER SELECTION screen will prompt the user for the desired printer and the record will be sent to that location for printing.

c. Output

The TUNS ORGANIZATION DETAIL REPORT layout has been included in Appendix D. This report will be compiled into a pre-determined format and output to the selected printer.

3.11 TECHNOLOGY TRANSFER AGENT DATABASE

3.11.1 General Description

The Technology Transfer Agent Database, already implemented in Phase I, will be expanded to include the Browse, Query, and Print functions. This database is used to record the information about each NASA Technical Transfer Agent within a particular facility. Included in this database are fields for the Technology Transfer Agent's name, organization code, and mail code. This database provides the copied name and addresses for letters that are automatically generated for people doing the NASA in-house research.

3.11.2 Functional Description

Each site will maintain its own Technology Transfer Database on an on-going basis. Each site will now have the ability to Browse, Query, and Print the contents of this database.

3.11.3 Database Elements

There will be no changes to the current schema in the Technology Transfer Agent Database.

3.11.4 Browse Technology Transfer Agent Database

a. Input

Browse will be selected by the user from Menu 2(6)(4), TECHNOLOGY TRANSFER AGENT DATABASE. This menu will be updated to include: BROWSE BY ORGANIZATION CODE. (See Appendix B.) After making this selection, the standard Browse screen will appear to prompt the user as follows:

PLEASE ENTER THE ORGANIZATION CODE.

ORGANIZATION CODE: (6)

(See Appendix C.) The record selection criteria will be processed by the Pager program.

b. Processing

The Browse program is used to obtain a selected group of records. These records will be processed further by the Pager program. The user may begin the browse process by selecting a starting point in the database. The Pager program will list all records in a 2-line record description beginning with the selected starting record and continuing to the end of the database. This database will be sorted in ASCII sequence on the Organization Code fields. If no records were selected, the following error message will appear: NO RECORDS WERE SELECTED <ENTER>. Those records listed by the Pager program may be selected by the user for further processing: View, Print, Update. These programs will be executed from the Pager screen as implemented during Phase I.

c. Output

The data elements in the 2-line record description shown on the Pager screen will be as follows:

ORGANIZATION CODE ____ (6) ____

TTA NAME ____ (15) ____

(See Appendix C.) The user will select records for final processing: View, Print, Update. View will result in the record(s) being output to a screen. Print will result in the user receiving the PRINTER SELECTION screen. The PRINTER SELECTION screen will enable the user to choose a printer for output. Update will result in the record(s) being output to the screen where the user may make field changes to the record (See Appendix C.)

3.11.5 Query Technology Transfer Agent Database

a. Input

The user will select Query from Menu 2(6)(4), TECHNOLOGY TRANSFER AGENT DATABASE. This menu will be updated to include QUERY ORGANIZATION RECORD. (See Appendix B.) After making this selection, the standard QUERY DATA CRITERIA screen will appear. The following fields will be used in the query:

TTA LAST NAME: _____ (15)

MAIL CODE: _____ (10)

(See Appendix C.) The user selection criteria will be processed by the Pager program.

b. Processing

The Query program is used to select a group of records based on data values in the above specified fields. The database records that exactly match the query fields input by the user will result in a selection group. The selection group will be processed by the Pager program in the standard 2-line record description format on the Pager screen. If no record(s) were selected, the following error message will appear: NO RECORDS WERE SELECTED <ENTER>. Those records listed by the Pager program may be selected by the user for further processing: View, Print, Update. These programs will be executed from the Pager screen as implemented during Phase I.

c. Output

The data elements in the 2-line Pager description will be as follows:

ORGANIZATION CODE: _____ (6)

TTA NAME: (1) (1) _____ (15)

(See Appendix C.) The user will select records for final processing: View, Print, Update. View will result in the record(s) being output to a screen. Print will result in the user PRINTER SELECTION screen. This screen will allow the user to choose a printer for receiving the output. Update will result in the record(s) being output to the update screen. The user may make changes on this screen.

3.11.6 Print Records From The Technology Transfer Agent Database

a. Input

The user will access Print by selecting PRINT TECHNOLOGY TRANSFER AGENT DETAILED REPORT from Menu 2(6)(4), TECHNOLOGY TRANSFER AGENT DATABASE. (See Appendix B.) After making this selection, the standard Record Selection screen will prompt the user as follows:

PLEASE ENTER THE ORGANIZATION CODE OF THE DESIRE RECORD

ORGANIZATION CODE: (6)

(See Appendix C.) The standard Printer Selection screen will prompt the user to select the desired printer. No changes will be made to the PRINTER SELECTION screen.

b. Processing

This function employs the Genprint program, which is a general print utility used to print the individual record selected by the user. The user will enter the Organization Code (record key) when prompted at the PRINT KEYWORD ENTRY screen. On this screen the user will be able to identify the desired record for printing. If no records were selected, the following error message will appear: NO RECORDS WERE SELECTED <ENTER>. The standard PRINTER SELECTION screen prompts the user for the desired printer, and the record is sent to that location for printing.

c. Output

The TUNS Technology Transfer Agent Detail Report layout has been included in Appendix D.

3.12 TU PROJECT MANAGEMENT (SITE)

3.12.1 General Description

The TU Project Management capability will consist of a selected off-the-shelf project management software package to be used by each site. Additionally, the ability to generate statistical reports will be added. TUOs will automatically generate a Quarterly Management Report that will compile data from the NTR Tracking Database, and the Contract/Grant Administration Database. IACs will be given a format to use for the inputting of statistical data that pertains to their operations.

3.12.2 Functional Description

On a quarterly basis, each site will prepare its Quarterly Reports. For the TUOs, it will be simply a case of invoking the report function. The report will be formatted and then presented on a screen. At this point, the TUO will have the opportunity include a narrative summary. For the IACs, it will be a case of receiving a standard format to input their data. Once the reports are prepared, they are uploaded to the central computer where they are retrieved by headquarters. The project management software package will provide the following minimum capabilities:

- o provide PERT charts,
- o provide Gantt charts,
- o support backward calculations,
- o provide calendar size up to 20,
- o provide up to 1K tasks without linking,
- o provide up to 100 resources per project,
- o allow fractional use of resources,
- o support leveling, task tracking, resource/cost allocation,
- o support schedule reporting, cost reporting, cash flow reporting,
- o support Earned Value Analysis and sorting capabilities.

3.12.3 Database Elements

There will be no new database elements involved in the execution and functioning of the project management software package.

3.12.4 Linkage from TUNS to the Project Management Software

a. Input

The user will access this software from Menu M(4), TU PROJECT MANAGEMENT (SITE) MENU by selecting ACTIVE PROJECT MANAGEMENT. This user selection will cause a specific batch file to issue the executable DOS commands required to call the project management software package.

b. Processing

A linkage program will provide the user with a batch file which includes the executable DOS commands that call the specific off-the-shelf project management package. This batch file will issue the command to change to the directory where the software is located. Once the directory change has been made, the system will issue the command to access the project management software. Termination of the package will return the user to the TUNS PROJECT MANAGEMENT Menu.

c. Output

When the user executes the appropriate batch file, he will be automatically brought to the project management software package. The user will exit the package as instructed and will be returned to Menu M(4), TU Project Management.

3.12.5 Generate TUO Quarterly Management Report

a. Input

The user will access Menu M(4), TU PROJECT MANAGEMENT (SITE) from his local computer. He will select QUARTERLY MANAGEMENT REPORT. TUNS will compile data from the local NTR database and place this information into the pre-formatted Quarterly Management Report ready for printing. The PRINTER SELECTION screen will prompt the user to select the printer for output.

b. Processing

A specialized program will be written to collect the information from the local TUNS databases necessary to prepare the statistical portion of the NASA Technology Utilization Activity Report. The following list of yearly, quarterly, and summary statistics along with the data source is described below. The quarter and fiscal year dates will be determined from the system date at the time the report is generated.

DATA SOURCE

STATISTICAL ELEMENT

NTR Tracking Database:

NTR Items Received
NTR Items Rejected
NTRs Forwarded for Evaluation:
 To Center
 To Contractor (SRI)
 To COSMIC
NTR Forwarded to Tech Brief Pub.
NTR Forwarded for Compilation Pub.
Tech Brief Candidate Awaiting TSP
TSPs Forwarded for Preparation

Contract Admin. Databases:

New Contracts With NT Clause
Compliances Certified
R&D Contracts With NT Clause
Withholding Data

These figures will be placed in a merge file for combining with the remainder of the Activity Report, (i.e., Narrative Summary). The user will then input the narrative portion of the report using the template on the screen. The standard WordPerfect functions will then be available to the user. The statistical data will be placed in an ASCII file for transmission to the central computer for HQ use.

c. Output

The Quarterly Management Report will be output to the printer selected by the user. The system will return the user to Menu (4), TU PROJECT MANAGEMENT (SITE).

3.12.6 Generate IAC Quarterly Management Report

a. Input

The user will go to Menu M(4), TU PROJECT MANAGEMENT (SITE) and select IAC QUARTERLY MANAGEMENT REPORT. TUNS will then present a formatted screen that will allow the user to input the necessary statistical data.

b. Processing

IACs will input the following data elements:

- Center Code
- Contract Number
- Staffing
- Client Income
- NASA Share
- Cost Sharing
- Operating Costs
- Number of Searches
- Total Number of Clients
- Type of Client Assistance
- Small Disadvantaged and Minority Business Activities

A complete sample of the report is available in Appendix D.

c. Output

The Quarterly Management Report will be output to the printer selected by the user. The system will return the user to Menu M(4), TU PROJECT MANAGEMENT (SITE). (See Appendix D.)

3.12.7 Transmit Quarterly Statistical Data to HQ

a. Input

The TUO QUARTERLY STATISTICAL DATA file or the IAC QUARTERLY STATISTICAL DATA file will be transmitted to a NASA HQ data set on the central computer. The user will select TRANSMIT QUARTERLY STATISTICAL DATA TO HQ from the TU PROJECT MANAGEMENT (SITE) MENU. The user will be connected to the central computer via a communications package and requested to enter his Logon ID. From the Main Menu he will select TRANSMIT QUARTERLY STATISTICAL DATA TO HQ where the statistical file will be added to the HQ Quarterly Report data set.

b. Processing

The transmit function will cause the IAC or the TUO QUARTERLY STATISTICAL file to be transmitted to a data set on the central computer. The information will be stored in this data set and will be available for NASA HQ to download to a spreadsheet for consolidation of data.

c. Output

The output will be the modified HQ QUARTERLY STATISTICAL DATA file on the central computer.

3.13 TU PROGRAM MANAGEMENT (HQ)

3.13.1 General Description

The TU Program Management capability will consist of a selected off-the-shelf project management software package to be used by NASA HQ. In addition, the ability to retrieve and combine two statistical reports will enhance this package. These reports are the IAC Quarterly Report and the TUO Quarterly Management Report.

3.13.2 Functional Description

The two statistical reports are generated by each individual site and uploaded to the central computer. When HQ is ready to compile the statistical information contained in these reports, they execute the Retrieve function. This function takes each respective report (IAC and TUO), compiles the data contained in them, and produces two summation reports. These reports are loaded into Lotus 1-2-3 database where they are available for further manipulation. Refer to Project Management (Site) for more information about the contents of these reports.

The project management software package will provide the following minimum capabilities:

- o provide PERT charts,
- o provide Gantt charts,
- o support backward calculations,
- o provide calendar size up to 20,
- o provide up to 1K tasks without linking,
- o provide up to 100 resources per project,
- o allow fractional use of resources,
- o support leveling, task tracking, resource/cost allocation,
- o support schedule reporting, cost reporting, cash flow reporting,
- o support Earned Value Analysis and sorting capabilities.

3.13.3 Database Elements

There will be no new database elements involved in the execution and functioning of the project management software package.

3.13.4 Linkage from TUNS to the Project Management Software

a. Input

The user will access this software from Menu M(5), TU PROGRAM MANAGEMENT MENU by selecting ACTIVE PROGRAM MANAGEMENT. This user selection will cause a batch file to issue the executable DOS commands required to call the selected project management software package.

b. Processing

A linkage program will provide the user with a batch file which includes the executable DOS commands that call the specific off-the-shelf project management package. This batch file will issue the command to change to the directory where the software is located and initiate the command to access the project management software. The termination of the project management software will return the user to the TUNS PROGRAM MANAGEMENT Menu.

c. Output

When the user executes the appropriate batch file, he will automatically be brought to the project management software package. The user will exit the package as instructed and will be returned to Menu M(5), TU PROGRAM MANAGEMENT.

3.13.5 Retrieve TUO Quarterly Statistical Data

a. Input

The user will select RETRIEVE QUARTERLY STATISTICAL DATA from the TU PROGRAM MANAGEMENT MENU. The user will be linked via a communications package to the central computer where he will be asked to enter his logon ID. The user will select RETRIEVE TUO QUARTERLY

STATISTICAL DATA from the main menu. The NASA HQ QUARTERLY STATISTICAL DATA file will be processed and all TUO records selected for downloading to the local PC.

b. Processing

When the user selects RETRIEVE TUO QUARTERLY STATISTICAL DATA, the NASA HQ QUARTERLY STATISTICAL DATA file will be read and all records with "TUO" in field 1 will be selected for downloading to the local PC. Access to this menu item will be limited to NASA HQ logon IDs. The selected records will be downloaded to the local PC for further processing. These records will be loaded into a spreadsheet database for consolidation and comparison purposes.

c. Output

The TUO Quarterly Statistical Data records selected from the central computer and downloaded to a statistical file on the local PC are the output of this process. See the TU Project Management (Site) section for a description of the data elements and file format.

3.13.6 Retrieve IAC Quarterly Statistical Data

a. Input

The user will select RETRIEVE QUARTERLY STATISTICAL DATA from the TU PROGRAM MANAGEMENT MENU. The user will be linked via a communications package to the central computer where he will be asked to enter his logon ID. The user will then select RETRIEVE IAC QUARTERLY STATISTICAL DATA from the main menu. The NASA HQ QUARTERLY STATISTICAL DATA file will be processed and all IAC records will be selected for downloading to the local PC.

b. Processing

When the user selects RETRIEVE IAC QUARTERLY STATISTICAL DATA, the NASA HQ QUARTERLY STATISTICAL DATA file will be read, and all records with "IAC" in field 1 will be selected for downloading to the local PC. Access to this menu item will be limited to NASA HQ logon IDs. The selected records will be downloaded to the local PC for further

processing. These records will be loaded into a spreadsheet database for consolidation and comparison purposes.

c. Output

The IAC Quarterly Statistical Data records selected from the central computer and downloaded to a statistical file on the local PC are the output of this process. See the TU Project Management (Site) section for a description of the data elements and file format.

3.14 IAC NTR EXTRACT FROM CENTRAL DATABASE

3.14.1 General Description

The IACs will have direct access to all the NTRs that have been sent to the NTR Evaluation Summary Central Database. (See Section 3.4). This will enable the IACs to perform searches that may help them provide information to their clients.

3.14.2 Functional Description

The IACs may use this database just as the TUOs do; only, they will not have the capability to edit or add records. For information about the exact functions that can be performed see Section 3.4

3.14.3 Database Elements

No new database elements will be added in connection with this module. The schema to be used for this database has been identified in the following section of this document, 3.2.4 CENTRAL SITE DATABASES: NTR/EVALUATION SUMMARY (CENTRAL). Refer to Appendix A, Section 1 - ntr_cent schema - for a detailed list of elements or Section 2 NTR/Evaluation Summary (Central) Elements Descriptions - for a description of each database element. All new elements for Phase II will be marked with an asterisk in both listings.

3.14.4 IAC Access to the NTR (Central) Database

a. Input

The user will access the central computer through Menu M(3), IAC ADMINISTRATION & MANAGEMENT MENU. From this menu he will select ACCESS NTR (CENTRAL) RECORDS. This new menu selection will be added. (See Appendix B.) After making this selection, the user will be linked to the central computer and prompted to enter his Logon ID. From the central Main Menu the user will select NTR (CENTRAL) DATABASE. The user may choose any of the functions available for the NTR Central Database.

b. Processing

The IAC user will be able to access the NTR Central database from the local IAC Menu. This menu selection will initiate the communications package, link the user to the central computer, allow the user to log onto the central computer and go to the NTR CENTRAL DATABASE MENU. The IAC user will have full inquiry capabilities including: Query, Keyword Search, View, and Download to the local PC. Through the Fx-DNLOAD function specific fields from selected NTR (Central) records may be extracted and formatted into an ASCII file for downloading to the local computer. From the local PC the user can manipulate the data. The execution of this function is described in Section: 3.4, CENTRAL SITE DATABASES: NTR/EVALUATION SUMMARY (CENTRAL).

c. Output

Refer to Section 3.4, CENTRAL SITE DATABASES: NTR/EVALUATION SUMMARY (CENTRAL) for a complete description of output for this function. The IAC user will not have update capabilities at the NTR Central Database.

3.15 OFFICE AUTOMATION TRAINING

3.15.1 General Description

The Office Automation Training consists of the off-the-shelf computer based training tutorials that accompanied the office automation software that was implemented in Phase I. These tutorials address Wordperfect, Lotus 1-2-3, HyperACCESS, and Unify. In Phase II, the tutorials that accompany the Project Management, and Engineering Graphics software will be added to the system.

3.15.2 Functional Description

The system presents all the office automation tutorials on one menu. A user simply chooses the tutorial he wishes to take and follows the instructions as presented by the tutorial.

3.15.3 Database Elements

There will be no database elements involved in the execution and functioning of the engineering graphics tutorial or the project management tutorial.

3.15.4 Linkage from TUNS to the Engineering Graphics Tutorial

a. Input

The user will access this tutorial from Menu M(6), ORIENTATION AND TRAINING by selecting OFFICE AUTOMATION TRAINING. From Menu M(6)(7) OFFICE AUTOMATION TRAINING, the user will select SIMPLE ENGINEERING GRAPHICS. This user selection will cause a specific batch file to issue the executable DOS commands required to call the engineering graphics on-line tutorial.

b. Processing

A linkage program provides the user with batch files made up of the commands necessary to call a specific software package tutorial. This batch file will issue the command to change to the directory where the engineering graphics on-line tutorial is located. The batch file will also issue a command to access the on-line tutorial.

c. Output

As a result of executing the appropriate batch file, the user will automatically be brought to the engineering graphics tutorial. Once the user is at this location, he is ready to complete the tutorial lessons.

3.15.5 Linkage from TUNS to the Project Management Tutorial

a. Input

The user will access this tutorial from Menu M(6), ORIENTATION AND TRAINING by selecting OFFICE AUTOMATION TRAINING. From Menu M(6)(7) OFFICE AUTOMATION TRAINING, the user will select PROJECT MANAGEMENT. This user selection will cause a specific batch file to issue the executable DOS commands required to call the project management on-line tutorial.

b. Processing

A linkage program provides the user with batch files made up of the commands necessary to call a specific software package tutorial. This batch file will issue the command to change to the directory where the project management on-line tutorial is located. The batch file will also issue a command to access the on-line tutorial.

c. Output

As a result of executing the appropriate batch file, the user will automatically be brought to the project management tutorial. Once the user is at this location, he is ready to complete the tutorial lessons.

3.16 TUNS SYSTEM TRAINING

3.16.1 General Description

The TUNS System Training, already implemented in Phase I, will be expanded and updated to include all the system changes that will occur in Phase II. The TUNS System Training is a series of computer based training tutorials that reside on the system. TUNS users learn how to use the system by completing these on-line tutorials at their own pace. The Phase I release of System Training covered all aspects of TUNS version 1.0 software. The Phase II edition will cover all aspects of TUNS version 2.0.

3.16.2 Functional Description

Each site will receive a copy of the training tutorials. Users simply select the tutorial topic they wish to learn. The following is a list of tutorials that either currently exist without need for modification, exist with modification requirements to reflect software enhancements, or which must be created for Phase II software:

TU Projects (Central)	Create New
TU Project Management (Site)	Create New
TU Program Management (HQS)	Create New
NTR/Evaluation Summary (Central)	Create New
New Technology Short Form	Create New
Office Automation Read Me First	Update
TUNS System Read Me First	Update
System Functions	Update
Who & Where Directories	Update
Technical Inquiries & Abstracts	Update
Space Benefits (Central)	Update
New Technology Long Form	Update
NTR Tracking	Update
Contract/Grant NT Administration	Update
TTA Organization	Update

RTR Organization	Update
IAC Administration & Management	Update
System Administration	Update
In-House NT Administration	No change
Contractor/Grantee	No change
Innovator	No change
DOS Utilities	No change

These tutorials have been developed in conjunction with the TUNS User Guide. The Guide, using almost identical chapter headings, provides more detailed information and is intended to be used as a reference for user assistance. Revisions to the TUNS User Guide and to the tutorials will simultaneously reflect changes implemented by Phase II, Release 1.

3.16.3 Database Elements

There will be no database elements involved in the execution and functioning of the on-line TUNS System Training.

3.16.4 Create New On-Line TUNS Tutorials

a. Input

The user will access these tutorials from Menu M(6), ORIENTATION AND TRAINING by selecting TUNS SYSTEM TRAINING. From Menu M(6)(8), TUNS SYSTEM TRAINING the user will choose the selection which corresponds to the desired tutorial topic. The user selection will cause a specific batch file to issue the executable DOS commands required to call the TUNS on-line tutorial.

b. Processing

New on-line TUNS tutorial modules will be created using PCD3 for the following new databases: TU Projects, NTR/Evaluation Summary (Central), TU Project Management (Site), TU Program Management (HQ). Each database will be described using the following three categories: Introduction-Access, Field Descriptions, and Unique Characteristics. The Linkage Programs provide the user with batch files made up of the commands necessary to call a specific software

package tutorial. This batch file will issue the command to change to the directory where the TUNS on-line tutorial is located. This batch file will also issue the command to access that tutorial. At the conclusion of the tutorial, the user will be returned to the menu that called the tutorial.

c. Output

When a user selects a specific tutorial topic from a menu, TUNS will execute the appropriate batch file. The user will automatically be brought to the selected TUNS tutorial lesson.

3.16.5 Update Existing On-Line TUNS Tutorials

a. Input

The user will access these tutorials from Menu M(6), ORIENTATION AND TRAINING by selecting TUNS SYSTEM TRAINING. From Menu M(6)(8), TUNS SYSTEM TRAINING the user will choose the selection which corresponds to the desired tutorial topic. The user selection will cause a specific batch file to issue the executable DOS commands required to call the TUNS on-line tutorial.

b. Processing

Existing on-line TUNS tutorial modules will be updated using PCD3 to reflect changes to be implemented for Phase II, Release 1. Those existing tutorials to be updated are: Office Automation Read Me First, TUNS System Read Me First, System Functions, Who & Where Directories, Technical Inquiries & Abstracts, Space Benefits (Central), NTR Short Form, NTR Long Form, NTR Tracking, Contract/Grant NT Administration, TTA Organization, RTR Organization, IAC Administration & Management, and System Administration. These databases will follow the existing format with updates for changes described in this Functional Requirements Document. The Linkage Programs provide the user with batch files made up of the commands necessary to call a specific software package tutorial. This batch file will issue the command to change to the directory where the TUNS on-line tutorial is located. The batch file will also issue the

command to access that tutorial. At the conclusion of the tutorial, the user will be returned to the menu that called the tutorial.

c. Output

When a user selects a specific tutorial topic from a menu, TUNS will execute the appropriate batch file. The user will automatically be brought to the selected TUNS tutorial lesson.

3.17 ENGINEERING GRAPHICS

3.17.1 General Description

In Phase II, an off-the-shelf Engineering Graphics package will be incorporated into TUNS. The package will be used to create simple engineering sketches.

3.17.2 Functional Description

Users will select Engineering Graphics from the Office Automation menu. The software will provide at a minimum the following:

- o provide precise on-screen zoom command to change to change the size of the drawings,
- o provide extensive editing capabilities
- o draw curves, circles, ellipses, and arcs,
- o provide text drawing features,
- o allow lines of varying thickness,
- o provide area-fill capability with different hatching,
- o allow figures to be created, stored, and retrieved at any location, size, or angle,
- o provide auto dimensioning, fillets, and changers,
- o allow data from other files to be used,
- o provide output from other files to be used,
- o perform area and length calculations,
- o provide macro capabilities,
- o draws parallel, perpendicular, and tangent automatically.
- o electronically transmittable
- o import/export capability for drawings
- o memory requirements
- o price
- o extra equipment needed

With this software TUNS users will be able to produce and transmit simple engineering sketches. These sketches will be transmitted as binary files and will not require specialized graphics interfaces. Through menu selections, the user will be able to access the engineering graphics software. TUNS will initiate prescribed linkage programs that will issue the necessary DOS commands to call this software package. This programming will be transparent to the user who will go from the Office Automation Menu directly into the engineering graphics software package.

3.17.3 Database Elements

There will be no database elements involved in the execution and functioning of the engineering graphics software package.

3.17.4 Linkage from TUNS to the Engineering Graphics Software

a. Input

The user will access the software from Menu M(7), OFFICE AUTOMATION by selecting SIMPLE ENGINEERING GRAPHICS. This user selection will cause a specific batch file to issue the executable DOS commands required to call the graphics software package.

b. Processing

The Linkage Programs will provide the user with batch files which include the executable DOS commands that call the specific off-the-shelf package. This batch file will issue the command to change to the directory where the software is located. The batch file will also issue the command to access the engineering graphics software.

c. Output

As a result of executing the appropriate batch file, the user will automatically be brought to the graphics package. Once the user is at this location, he is ready to create simple engineering graphics.

3.18 DESKTOP PUBLISHING SOFTWARE

3.18.1 General Description

In Phase II, an off-the-shelf Desktop Publishing package will be incorporated into TUNS. The package will be used to create newsletters and other documents that require typesetting.

NOTE: Several hardware components are needed for offices that intend to maximize the use of desktop publishing. A Postscript Laser Printer is recommended because it provides the most flexibility with typestyles. Hewlett Packard Laser Printers can be modified into Postscript printers, or Postscript Printers may be purchased outright. Additionally, in order to ensure timely printing of document, it is recommended that the Laser Printers have expanded memory. Lastly, the addition of a mouse will greatly enhance ease of use.

3.18.2 Functional Description

Users will select Desktop Publishing from the Office Automation menu. The software will provide at a minimum the following:

- o what-you-see-is-what-you-get display capabilities,
- o what-you-see-is-what-you-get editing capabilities,
- o import and lay out multiple pages of text in one step,
- o style sheets to format text,
- o bit-mapped graphics,
- o importation of text from multiple word processing packages,
- o text editing once imported,
- o importation of graphics from multiple graphics packages,
- o graphics manipulation once imported,
- o multiple page documents,
- o HP Laserjet printer and compatibles, and
- o Epson dot matrix printers and compatibles.

Several hardware components are needed for maximum use of a desktop publishing package. The following hardware is recommended for the Phase II Desktop Publishing Package. A Postscript Laser Printer will present the user with typestyle flexibility not available with the HP Laserjet and the Epson Dot Matrix Printers. The Postscript Laser Printer can be purchased, or the HP Laserjet II can be modified by adding a postscript adapter board. Expanded memory for the laser printer is recommended by ensure that all documents print in a timely fashion. Lastly, the addition of a mouse will enhance ease of use for the user.

Through menu selections the user will be able to access the desktop publishing software. TUNS will initiate prescribed linkage programs that will issue the necessary DOS commands to call the software package. This programming will be transparent to the user who will go from the Office Automation Menu directly into the desktop publishing software package.

3.18.3 Database Elements

There will be no database elements involved in the execution and functioning of the desktop publishing software package.

3.2.18.4 Linkage from TUNS to the Desktop Publishing Software

a. Input

The user will access this software from Menu M(7), OFFICE AUTOMATION by selecting DESKTOP PUBLISHING. Once the selection is initiated, a specific batch file will issue the executable DOS commands required to call this software package.

b. Processing

The Linkage Programs will provide the user with batch files which include the executable DOS commands that call the specific off-the-shelf package. This batch file will issue the command to change to the directory where the software is located. The batch file will also issue the command to access the desktop publishing software.

c. Output

As a result of executing the appropriate batch file, the user will automatically be brought to the desktop publishing package. Once the user is at this location, he is ready to use desktop publishing.

3.19 TU PROJECTS (LOCAL) DATABASE

3.19.1 General Description

The TU Projects Database Local, already implemented in Phase I, will be expanded by eleven fields. This database is used to record all pertinent information pertaining to field office's projects. Included in this record type are fields for the project title, financial information, and various milestones.

The central computer will be an exact replica of the expanded local database. Additionally, a new financial summary report will be added to both databases. This report will show the financial status of projects funded within the current fiscal year.

3.19.2 Functional Description

Each site will maintain its own projects on an on-going basis. On a quarterly basis, each site will upload all records to the central computer. Research Triangle Institute (RTI) will then review these records for certification. After the certification process is complete, each site will download its projects back to its local database. At the beginning of the next quarter, the cycle will begin again.

3.19.3 Database Elements

The schema for the TU Projects (Local) Database developed during Phase I will be expanded for use on the central computer. Refer to Appendix A, Section 1 - Project Schema - for a detailed list of elements or Section 2 - Project Elements Description - for a description of each database element. All new elements for Phase II will be marked with an asterisk in both listings.

3.19.4 Create TU Projects (Local) Transactions

a. Input

The user will select CREATE TU PROJECTS (LOCAL) TRANSACTIONS from the local TU Projects Menu. The records contained in the local database will be placed in a formatted ASCII file for updating the central database.

b. Processing

When the user selects the create menu item, all records in the local TU Projects database will be copied to a formatted file in ASCII format for updating of the TU Projects (Central) database. The user will initiate the update process from the CENTRAL COMPUTER TU PROJECTS menu.

c. Output

The output of the create projects will be the formatted ASCII file. See Appendix A for a list of file elements.

3.20 NASA ORGANIZATION DIRECTORY DATABASE

3.20.1 General Description

The Expert Referral Central Database, already implemented in Phase I, will be renamed NASA Organization Directory. This database is similar to an electronic phone book of NASA organizations. Included in this database are fields for site name, organization code, organization name, TUO contact name, and TUO contact phone number.

3.20.2 Functional Description

This database is maintained by a central Database Administrator on an annual basis. The contents of this database can be Searched, Queried, Maintained, and Printed. Refer to Appendices B, C, and D for name modifications.

3.21 SPACE BENEFITS LOCAL

3.21.1 General Description

The Space Benefits Local database, already implemented in Phase I, will be expanded and given the capability to upload records to the Space Benefits Central database. This database is used to record all information pertinent to each office's understanding of benefits derived from contracts monitored by NASA or research performed by NASA.

Included in this record type are fields for the nature of the benefit, a summation of the benefit, financial implications of the benefit, financial implications of the benefit, users of the benefit, and bibliographic references to the benefit. In Phase I, this database consisted of only benefits that had appeared in the NASA Spinoff publication. The Phase II implementation will continue to record Spinoff material and will also allow for the collection of additional benefits either not planned for Spinoff publication or prior to Spinoff publication.

3.21.2 Functional Description

Each site will maintain its own benefits in the local database on an on-going basis. Records are then uploaded from the local computer to the central computer. Existing records on the central computer can be updated by downloading to the local computer, editing the record, and uploading back to the central computer. The functions applicable to this database are Query, Keyword Search, Update, Print, and View.

3.21.3 Database Elements

The schema for the Space Benefits databases, local and central, will contain new elements. Refer to Appendix A, Section n_sp_bene schema -- for a detailed list of elements, or Section 2, Space Benefits Elements Descriptions, for a description of each database element. All new elements for Phase II will be marked with an asterisk in both listings.

3.21.4 Query Space Benefits (Local) Records

a. Input

The user will select Query Space Benefits (Local) from the local Space Benefits menu. The QUERY: RECORD SELECTION CRITERIA screen will prompt the user for the following fields:

Please Enter Values For The Fields To Be Queried.

Date: From: _____ To: _____

Center: _____

Type of Benefit: _____

Type of User: _____

Estimated Value of Benefit: From: _____ To: _____

STATE: _____

CITY: _____

ZIP FROM: _____ TO: _____

PARC: _____

TVA: _____

SMSA: _____

EDA: _____

COUNTY: _____

CONGRESSIONAL DISTRICT: _____

see p. 24

Y/N

(See Appendix C.) TUNS will process the above user input through the Pager program.

b. Processing

The query program is used to select a group of records based on data values in specified fields. The database records that match the query fields will result in a selection group. The selection group will be processed further by the Pager program.

c. Output

The QUERY RECORD SELECTION (Pager) screen will use the following elements in the 2-line record description.

Record No: Date: Est. Total & Benefit:
Title:

(See Appendix C.) The user may select records for final processing by choosing View, Update, or Print. View will result in the selected records being output to screen. Update will result in the selected records being output to screen for updating. Print will result in the selected records being sent to the printer for printing.

3.21.5 Create Space Benefits (Local) Transactions

a. Input

The user will select Create Space Benefits (Local) Transactions from the local Space Benefits Menu. The records contained in the local database will be placed in a formatted ASCII file for updating the central database.

b. Processing

When the user selects the "Create Transaction" menu item, all records in the local Space Benefits database which have been marked with a "Y" in Release to Central DB field and which have Date Released blank will be copied to a formatted file in ASCII format for updating. The Space Benefits (Central) database. The user will initiate the update process from the Central Computer Space Benefits menu.

c. Output

The output of the "Create Transaction" will be the formatted ASCII file. See Appendix A for a list of file elements.

3.22 NTR ADDITIONAL INNOVATORS

3.22.1 General Description

The NTR Additional Innovators database will be created on the local PC and will contain the innovator code, award information, and NTR number of those innovators which exceed five on any particular NTR Short Form. The user may enter as many of these records as he wishes per NTR number.

3.22.2 Functional Description

The NTR Additional Innovators will be initially accessed from the NTR Short Form. When the user enters a "Y" in the More Innovators field, the Short Form program will bring up the data entry screen(s) for this database. The user may then enter as many innovators as needed on that particular NTR. In addition, the NTR additional Innovators database may be queried, updated, viewed, or printed.

3.22.3 Database Elements

The schema for the NTR Additional Innovators will be new. Refer to Appendix A, Section ntr_m_innov schema -- for a detailed list of elements, or Section 2, NTR Additional Innovators Elements Descriptions, for a description of each database element. All new elements for Phase II will be marked with an asterisk in both listings.

3.22.4 Query NTR Additional Innovators

a. Input

The user will select Query NTR Additional Innovators from the NTR Additional Innovators Local menu. The QUERY: RECORD SELECTION CRITERIA screen will prompt the user for the following fields:

Please Enter Values For The Fields To Be Queried.

NTR: _____

INNOVATOR CODE: _____

DATE AWD REQUEST TO HQ: _____

DATE CHECK TO INNOV: _____

b. Processing

The query program is used to select a group of records based on data values in specified fields. The database records that match the query fields will result in a selection group. The selection group will be processed further by the Pager program.

c. Output

The QUERY RECORD SELECTION (Pager) screen will use the following elements in the 2-line record description.

NTR NO: _____ INNOVATOR CD: _____

DATE AWD REQ TO HQ: _____ DATE CK TO INNOV: _____

(See Appendix C.) The user may select records for final processing by choosing View, Update, or Print. View will result in the selected records being output to screen. Update will result in the selected records being output to screen for updating. Print will result in the selected records being sent to the printer for printing.

3.22.5 Maintain NTR Additional Innovators Records

a. Input

The user will select Maintain NTR Additional Innovators from the NTR Additional Innovators Local menu. The Maintain Keyword Entry screen will prompt the user for the Innovator Code. The system will display the Data Entry Screen either with existing data from the selected record or with blank field values ready for data entry.

b. Processing

The record will be updated upon completion of screen entries. Data validation will occur as each field is completed.

c. Output

The database will be updated upon completion of screen entries.

3.22.6 Print NTR Additional Innovators

a. Input

The user will select Print NTR Additional Innovators from the NTR Additional Innovators Local menu. After making this selection, the standard Record Selection screen will prompt the user for the following:

PLEASE ENTER THE NTR NUMBER OF THE DESIRED RECORD.

INNOVATOR CODE: _____

b. Processing

This program employs the Genprint program, which is a general print utility used to print the individual record selected by the user. After the user enters the Innovator Code, the program searches for the record. If the record is found, the standard printer selection screen will prompt the user for the desired printer and the report will be sent to that location for printing. If no records were selected, the following message will appear: NO RECORDS SELECTED <ENTER>.

c. Output

This report will be compiled into a pre-determined format and output to the printer.

3.22.7 Mark For Delete

a. Input

The user will select Mark for Delete from the NTR Additional Innovators Local menu. The KEYWORD ENTRY screen will prompt the user for the Innovator Code to be deleted.

b. Processing

The delete program will search the NTR Additional Innovators database and find the record that matches the entered Innovator Code. The system will put a flag indicating that the records are to be deleted. These records will be deleted, once the System Administrator runs the Delete Marked Records function.

c. Output

The user will receive the following message:

THE INDICATED RECORD HAS BEEN MARKED FOR DELETE.

If the record(s) has not been found, the user will receive the following message:

NO RECORDS FOUND.

APPENDIX A
SECTION 1
SCHEMA LISTINGS

APPENDIX A

INTRODUCTION

This appendix contains two sections: Section 1 Schema Listings and Section 2 Database Elements Descriptions. Section 1 lists the schema for all database elements in each central and local database required for the development of TUNS Phase II, Release 1. Section 2 provides a listing of database elements descriptions for all required elements. In each section an asterisk in the column labelled "NEW" indicates a new element for Phase II.

NOTE: Element names will be changed to meet NASA standards for naming conventions of ADABAS/NATURAL.

APPENDIX A

SECTION 1 CENTRAL DATABASES TU PROJECTS SCHEMA LISTING

RECORD/FIELD	NEW	REF	TYPE	LEN	LONG NAME
projects					TU_PROJECTS
*proj001			STRING	9	REC_NO
proj002			STRING	15	TOPIC_CAT
proj003			STRING	60	PROJ_TIT
proj004			COMB		PROJ_ABS
proj004a			STRING	66	PROJ_ABS_A
proj004b			STRING	66	PROJ_ABS_B
proj004c			STRING	66	PROJ_ABS_C
proj004d			STRING	66	PROJ_ABS_D
proj004e			STRING	66	PROJ_ABS_E
proj004f			STRING	66	PROJ_ABS_F
proj004g			STRING	66	PROJ_ABS_G
proj004h			STRING	66	PROJ_ABS_H
proj004i			STRING	66	PROJ_ABS_I
proj004j			STRING	66	PROJ_ABS_J
proj005			STRING	10	CENT_NAME
proj006a			STRING	10	TUO_F_NM
proj006b			STRING	1	TUO_M_INT
proj006c			STRING	20	TUO_L_NM
proj007a			STRING	3	TUO_PN_AC
proj007b			STRING	8	TUO_PN_NO
proj007c			STRING	4	TUO_PN_EXT
proj008			DATE		DT_PLAN1
proj009			DATE		DT_ACT1
proj010			DATE		DT_PLAN3
proj011			DATE		DT_ACT2
proj012			DATE		DT_PLAN3
proj013			DATE		DT_ACT3
proj014			DATE		DT_PLAN4
proj015			DATE		DT_ACT4
proj016			DATE		DT_PLAN5
proj017			DATE		DT_ACT5
proj018			DATE		DT_PLAN6
proj019			DATE		DT_ACT6
proj020			DATE		DT_PLAN7
proj021			DATE		DT_ACT7
proj022			DATE		DT_PLAN8
proj023			DATE		DT_ACT8
proj024			DATE		DT_PLAN9
proj025			DATE		DT_ACT9
proj026			COMB		ACCOMPLISHMENTS
proj026a			STRING	66	ACCOMP_A
proj026b			STRING	66	ACCOMP_B
proj026c			STRING	66	ACCOMP_C
proj026d			STRING	66	ACCOMP_D
proj026e			STRING	66	ACCOMP_E

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SECTION 1

CENTRAL DATABASES

TU PROJECTS SCHEMA LISTING

RECORD/FIELD	NEW	REF	TYPE	LEN	LONG NAME
proj026f			STRING	66	ACCOMP_F
proj026g			STRING	66	ACCOMP_G
proj026h			STRING	66	ACCOMP_H
proj026i			STRING	66	ACCOMP_I
proj026j			STRING	66	ACCOMP_J
proj026k			STRING	66	ACCOMP_K
proj026l			STRING	66	ACCOMP_L
proj026m			STRING	66	ACCOMP_M
proj026n			STRING	66	ACCOMP_N
proj026o			STRING	66	ACCOMP_O
proj026p			STRING	66	ACCOMP_P
proj027			STRING	1	FUND_STATUS
proj027a			STRING	10	TECH_F_NM
proj027b			STRING	1	TECH_M_INT
proj027c			STRING	20	TECH_L_NM
proj028			STRING	12	RTOP_NO
proj029			DATE		STATUS_DAT
proj030			COMB		PROBLEMS
proj030a			STRING	66	PROBLEMS_A
proj030b			STRING	66	PROBLEMS_B
proj030c			STRING	66	PROBLEMS_C
proj030d			STRING	66	PROBLEMS_D
proj030e			STRING	66	PROBLEMS_E
proj030f			STRING	66	PROBLEMS_F
proj030g			STRING	66	PROBLEMS_G
proj030h			STRING	66	PROBLEMS_H
proj030i			STRING	66	PROBLEMS_I
proj030j			STRING	66	PROBLEMS_J
proj030k			STRING	66	PROBLEMS_K
proj030l			STRING	66	PROBLEMS_L
proj030m			STRING	66	PROBLEMS_M
proj030n			STRING	66	PROBLEMS_N
proj030o			STRING	66	PROBLEMS_O
proj030p			STRING	66	PROBLEMS_P
proj031			COMB		ACT_NQTR
proj031a			STRING	66	ACT_NQTR_A
proj031b			STRING	66	ACT_NQTR_B
proj031c			STRING	66	ACT_NQTR_C
proj031d			STRING	66	ACT_NQTR_D
proj031e			STRING	66	ACT_NQTR_E
proj031f			STRING	66	ACT_NQTR_F
proj031g			STRING	66	ACT_NQTR_G
proj031h			STRING	66	ACT_NQTR_H
proj031i			STRING	66	ACT_NQTR_I
proj031j			STRING	66	ACT_NQTR_J

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SECTION 1 CENTRAL DATABASES TU PROJECTS SCHEMA LISTING

RECORD/FIELD	NEW	REF	TYPE	LEN	LONG NAME
proj031k			STRING	66	ACT_NQTR_K
proj031l			STRING	66	ACT_NQTR_L
proj031m			STRING	66	ACT_NQTR_M
proj031n			STRING	66	ACT_NQTR_N
proj031o			STRING	66	ACT_NQTR_O
proj031p			STRING	66	ACT_NQTR_P
proj032	*		AMOUNT	12	NASA_REF_CUM
proj033	*		AMOUNT	12	NASA_FUND_CUM
proj034	*		AMOUNT	12	NASA_COMM_CUM
proj035	*		AMOUNT	12	NASA_OBLIG_CUM
proj036	*		AMOUNT	12	NASA_COSTED_CUM
proj037	*		AMOUNT	12	TOT_OTHER
proj038a	*		STRING	66	OTHER_SOURCE_A
proj038b	*		STRING	66	OTHER_SOURCE_B
proj038c	*		STRING	66	OTHER_SOURCE_C
proj039	*		DATE		DATE_LAST_CHG
proj040	*		DATE		DATE_CERT
proj041	*		DATE		DATE_REL_2CENT

APPENDIX A

SECTION 1

CENTRAL DATABASES

SPACE BENEFITS SCHEMA LISTING

RECORD/FIELD	NEW	REF	TYPE	LEN	LONG NAME
n_sp_bene	*				NEW_SPACE_BENES
*nspb001	*		STRING	9	REC_NO
nspb002	*		COMB		TITLE
nspb002a	*		STRING	66	TITLE_A
nspb002b	*		STRING	66	TITLE_B
nspb002c	*		STRING	66	TITLE_C
nspb003	*		STRING	42	SPINOFF_REF
nspb004	*		STRING	10	CENTER
nspb005	*		STRING	21	LOCAL_NO
nspb006	*		COMB		TECH_TERMS
nspb006a	*		STRING	66	TECH_TERMS_A
nspb006b	*		STRING	66	TECH_TERMS_B
nspb007	*		COMB		SUMMARY
nspb007a	*		STRING	66	SUMMARY_A
nspb007b	*		STRING	66	SUMMARY_B
nspb007c	*		STRING	66	SUMMARY_C
nspb007d	*		STRING	66	SUMMARY_D
nspb007e	*		STRING	66	SUMMARY_E
nspb007f	*		STRING	66	SUMMARY_F
nspb008	*		STRING	1	NATURE_OF_BEN
nspb009	*		STRING	1	CHANGE_NO_EMPLOY
nspb010	*		STRING	1	IMPROV_PROD_PLAN
nspb011	*		STRING	1	IMPROV_DEC_PROB
nspb012	*		STRING	1	INCREASE_SALES
nspb013	*		STRING	1	INCREASE_AWARE_TECH
nspb014	*		STRING	1	CONFIRM_INT_FIND
nspb015	*		STRING	1	REDUC_COST
nspb016	*		AMOUNT	11	RED_CST_\$
nspb017	*		STRING	10	RED_CST_PER
nspb018	*		STRING	1	INC_REVENUE
nspb019	*		AMOUNT	11	INC_REV_\$
nspb020	*		STRING	10	INC_REV_PER
nspb021	*		COMB		NOTES_PG3
nspb021a	*		STRING	66	NOTES_PG3_A
nspb021b	*		STRING	66	NOTES_PG3_B
nspb021c	*		STRING	66	NOTES_PG3_C
nspb021d	*		STRING	66	NOTES_PG3_D
nspb021e	*		STRING	66	NOTES_PG3_E
nspb021f	*		STRING	66	NOTES_PG3_F
nspb022	*		STRING	16	PATENT_NO
nspb023	*		DATE		PATENT_DATE
nspb024	*		STRING	66	ORGANIZATION
nspb025a	*		STRING	30	ORG_ADS1
nspb025b	*		STRING	30	ORG_ADS2
nspb025c	*		STRING	30	ORG_ADS3
nspb025d	*		STRING	25	ORG_CITY
nspb025e	*		STRING	2	ORG_ST

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SECTION 1

CENTRAL DATABASES

SPACE BENEFITS SCHEMA LISTING

RECORD/FIELD	NEW	REF	TYPE	LEN	LONG NAME
nspb025f	*		STRING	5	ORG_ZIP
nspb025g	*		STRING	4	ORG_ZIPS
nspb026a	*		STRING	10	CONTACT_FNAME
nspb026b	*		STRING	1	CONTACT_MI
nspb026c	*		STRING	20	CONTACT_LNAME
nspb026d	*		STRING	3	CONTACT_PN_AC
nspb026e	*		STRING	8	CONTACT_PN_NO
nspb026f	*		STRING	4	CONTACT_PN_EXT
nspb027	*		COMB		SOURCE_PG9
nspb027a	*		STRING	66	SOURCE_PG9_A
nspb027b	*		STRING	66	SOURCE_PG9_B
nspb027c	*		STRING	66	SOURCE_PG9_C
nspb027d	*		STRING	66	SOURCE_PG9_D
nspb027e	*		STRING	66	SOURCE_PG9_E
nspb027f	*		STRING	66	SOURCE_PG9_F
nspb028	*		STRING	1	TYPE_OF_USER
nspb029	*		COMB		NOTES_USER
nspb029a	*		STRING	66	NOTES_USER_A
nspb029b	*		STRING	66	NOTES_USER_B
nspb029c	*		STRING	66	NOTES_USER_C
nspb029d	*		STRING	66	NOTES_USER_D
nspb031	*		STRING	30	SMSA
nspb032	*		STRING	30	EDA
nspb033	*		STRING	30	COUNTY
nspb034	*		STRING	30	CONG_DISTRICT
nspb035	*		COMB		NOTES_LOC
nspb035a	*		STRING	66	NOTES_LOC_A
nspb035b	*		STRING	66	NOTES_LOC_B
nspb035c	*		STRING	66	NOTES_LOC_C
nspb035d	*		STRING	66	NOTES_LOC_D
nspb035e	*		STRING	66	NOTES_LOC_E
nspb035f	*		STRING	66	NOTES_LOC_F
nspb037	*		AMOUNT	11	TOTAL_VALUE
nspb038	*		COMB		TRANS_LIT_PG13

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SECTION 1 CENTRAL DATABASES SPACE BENEFITS SCHEMA LISTING

RECORD/FIELD	NEW	REF	TYPE	LEN	LONG NAME
nspb038a	*		STRING	66	TRANS_LIT_PG13_A
nspb038b	*		STRING	66	TRANS_LIT_PG13_B
nspb038c	*		STRING	66	TRANS_LIT_PG13_C
nspb038d	*		STRING	66	TRANS_LIT_PG13_D
nspb038e	*		STRING	66	TRANS_LIT_PG13_E
nspb038f	*		STRING	66	TRANS_LIT_PG13_F
nspb038g	*		STRING	66	TRANS_LIT_PG13_G
nspb039	*		STRING	1	PROP_DATA
nspb045	*		STRING	1	FRT_NASA_CONT
nspb046	*		STRING	1	NASA_REFERRAL
nspb047	*		STRING	1	USE_NASA_AGAIN
nspb048	*		COMB		TRANSFER_NOTES
nspb048a	*		STRING	66	TRANSFER_NA
nspb048b	*		STRING	66	TRANSFER_NB
nspb048c	*		STRING	66	TRANSFER_NC
nspb048d	*		STRING	66	TRANSFER_ND
nspb048e	*		STRING	66	TRANSFER_NE
nspb048f	*		STRING	66	TRANSFER_NF
nspb048g	*		STRING	66	TRANSFER_NG
nspb048h	*		STRING	66	TRANSFER_NH
nspb048i	*		STRING	66	TRANSFER_NI
nspb049	*		STRING	2	USER_ST
nspb051	*		STRING	5	USER_ZIP
nspb052	*		STRING	4	USER_ZIPS
nspb052	*		STRING	25	USER_CITY
nspb053	*		AMOUNT	11	TOT_INV_N_BEN
nspb054	*		AMOUNT	11	TOT_INV_N_EQUIP
nspb055	*		AMOUNT	11	TOT_INV_N_MAT
nspb056	*		AMOUNT	11	TOT_INV_N_PER
nspb057	*		AMOUNT	11	TOT_INV_N_OTH
nspb058	*		DATE		DATE_2CENT

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SECTION 1 CENTRAL DATABASES NTR/EVALUATION SUMMARY SCHEMA LISTING

RECORD/FIELD	NEW	REF	TYPE	LEN	LONG NAME
*ntrc001	*		STRING	9	NTR_NO
ntrc002	*		DATE		NTR_ITEM_DT
ntrc003	*		DATE		DT_NTR_RCV_N_TUO
ntrc004	*		COMB		NTR_TITLE
ntrc004a	*		STRING	66	NTR_TITLE_A
ntrc004b	*		STRING	66	NTR_TITLE_A
ntrc005	*		COMB		NTR_DESC
ntrc005a	*		STRING	66	NTR_DESC_A
ntrc005b	*		STRING	66	NTR_DESC_B
ntrc005c	*		STRING	66	NTR_DESC_C
ntrc006	*		COMB		NTR_KEYS
ntrc006a	*		STRING	66	NTR_KEYS_A
ntrc006b	*		STRING	66	NTR_KEYS_B
ntrc007	*		STRING	1	REL_2_CENTRAL
ntrc008	*		STRING	1	REL_2_IAC
ntrc009	*		STRING	1	REL_2_CLIENT
ntrc010	*		STRING	1	NTR_ORIGIN
ntrc011	*		STRING	16	PUB_DECISION
ntrc012	*		STRING	2	PAT_STATUS
ntrc013	*		STRING	20	TB_PUB_DATE
ntrc014	*		STRING	3	TB_PUB_VOL
ntrc015	*		STRING	3	TB_PUB_NO
ntrc016	*		STRING	3	TB_PUB_PAGE
ntrc017	*		DATE		DT_TO_CENTRAL
ntrc018	*		STRING	3	PREPARER_ID
ntrc043	*		DATE		DT_TO_EVAL
ntrc044	*		DATE		DT_FR_EVAL
ntrc045	*		DATE		DT_FOR_INV_REV
ntrc046	*		DATE		DT_RTND_2_TUO
ntrc047	*		STRING	1	EVALUATOR
ntrc048	*		STRING	3	FIN_CLASS
ntrc049	*		DATE		DT_PUB_REF_TO_PO
ntrc050	*		DATE		DT_PUB_REF_CONT
ntrc051	*		DATE		DT_NTR_TO_TB_TW
ntrc052	*		DATE		DT_DFT_TB_TO_INV
ntrc053	*		DATE		DT_FIN_TB_TO_LTS
ntrc054	*		DATE		DT_CAM_CPY_2_PUB
ntrc055	*		DATE		DT_TSP_DFT_START
ntrc056	*		DATE		DT_TSP_AVL_4_DIS

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SECTION 1 CENTRAL DATABASES NTR/EVALUATION SUMMARY SCHEMA LISTING

RECORD/FIELD	NEW	REF	TYPE	LEN	LONG NAME
ntrc057			COMB		ABS_INNOV
ntrc057a			STRING	66	ABS_INNOV_A
ntrc057b			STRING	66	ABS_INNOV_B
ntrc057c			STRING	66	ABS_INNOV_C
ntrc057d			STRING	66	ABS_INNOV_D
ntrc057e			STRING	66	ABS_INNOV_E
ntrc057f			STRING	66	ABS_INNOV_F
ntrc057g			STRING	66	ABS_INNOV_G
ntrc057h			STRING	66	ABS_INNOV_H
ntrc057i			STRING	66	ABS_INNOV_I
ntrc057j			STRING	66	ABS_INNOV_J
ntrc057k			STRING	66	ABS_INNOV_K
ntrc057l			STRING	66	ABS_INNOV_L
ntrc057m			STRING	66	ABS_INNOV_M
ntrc057n			STRING	66	ABS_INNOV_N
ntrc057o			STRING	66	ABS_INNOV_O
ntrc057p			STRING	66	ABS_INNOV_P
ntrc057q			STRING	66	ABS_INNOV_Q
ntrc058			COMB		EVAL_REPORT
ntrc058a			STRING	66	EVAL_RPT_A
ntrc058b			STRING	66	EVAL_RPT_B
ntrc058c			STRING	66	EVAL_RPT_C
ntrc058d			STRING	66	EVAL_RPT_D
ntrc058e			STRING	66	EVAL_RPT_E
ntrc058f			STRING	66	EVAL_RPT_F
ntrc058g			STRING	66	EVAL_RPT_G
ntrc058h			STRING	66	EVAL_RPT_H
ntrc058i			STRING	66	EVAL_RPT_I
ntrc058j			STRING	66	EVAL_RPT_J
ntrc058k			STRING	66	EVAL_RPT_K
ntrc058l			STRING	66	EVAL_RPT_L
ntrc058m			STRING	66	EVAL_RPT_M
ntrc058n			STRING	66	EVAL_RPT_N
ntrc058o			STRING	66	EVAL_RPT_O
ntrc058p			STRING	66	EVAL_RPT_P
ntrc058q			STRING	66	EVAL_RPT_Q

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SECTION 1
LOCAL DATABASES
NTR SHORT FORM SCHEMA LISTING

RECORD/FIELD	NEW	REF	TYPE	LEN	LONG NAME
*nsht001	*		STRING	9	NTR_NO
nsht002	*		DATE		NTR_ITEM_DT
nsht003	*		DATE		DT_NTR_RCV_N_TUO
nsht004	*		COMB		NTR_TITLE
nsht004a	*		STRING	66	NTR_TITLE_A
nsht004b	*		STRING	66	NTR_TITLE_A
nsht005	*		COMB		NTR_DESC
nsht005a	*		STRING	66	NTR_DESC_A
nsht005b	*		STRING	66	NTR_DESC_B
nsht005c	*		STRING	66	NTR_DESC_C
nsht006	*		COMB		NTR_KEYS
nsht006a	*		STRING	66	NTR_KEYS_A
nsht006b	*		STRING	66	NTR_KEYS_B
nsht007	*		STRING	1	REL_2_CENTRAL
nsht008	*		STRING	1	REL_2_IAC
nsht009	*		STRING	1	REL_2_CLIENT
nsht010	*		STRING	1	NTR_ORIGIN
nsht011	*		STRING	16	PUB_DECISION
nsht012	*		STRING	2	PAT_STATUS
nsht013	*		STRING	20	TB_PUB_DATE
nsht014	*		STRING	3	TB_PUB_VOL
nsht015	*		STRING	3	TB_PUB_NO
nsht016	*		STRING	3	TB_PUB_PAGE
nsht017	*		DATE		DT_TO_CENTRAL
nsht018	*		STRING	3	PREPARER_ID
nsht019	*		STRING	6	INNOVATOR_CODE_1
nsht020	*		STRING	6	INNOVATOR_CODE_2
nsht021	*		STRING	6	INNOVATOR_CODE_3
nsht022	*		STRING	6	INNOVATOR_CODE_4
nsht023	*		STRING	6	INNOVATOR_CODE_5
nsht024	*		DATE		DT_REF_2_HQ_1
nsht025	*		DATE		DT_REF_2_HQ_2
nsht026	*		DATE		DT_REF_2_HQ_3
nsht027	*		DATE		DT_REF_2_HQ_4
nsht028	*		DATE		DT_REF_2_HQ_5
nsht029	*		DATE		DT_CK_2_INNOV_1
nsht030	*		DATE		DT_CK_2_INNOV_2
nsht031	*		DATE		DT_CK_2_INNOV_3
nsht032	*		DATE		DT_CK_2_INNOV_4
nsht033	*		DATE		DT_CK_2_INNOV_5
nsht034	*		STRING	15	CTR_NO_1
nsht035	*		STRING	15	CTR_NO_2
nsht036	*		STRING	15	CTR_NO_3
nsht037	*		STRING	15	CTR_NO_4
nsht038	*		NUMERIC	2	CTR_SUFX_1

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SECTION 1 LOCAL DATABASES NTR SHORT FORM SCHEMA LISTING

RECORD/FIELD	NEW	REF	TYPE	LEN	LONG NAME
nsht039	*		NUMERIC	2	CTR_SUF2_2
nsht040	*		NUMERIC	2	CTR_SUF2_3
nsht041	*		NUMERIC	2	CTR_SUF2_4
nsht042	*		STRING	1	VER_CONT_NO
nsht043	*		DATE		DT_TO_EVAL
nsht044	*		DATE		DT_FR_EVAL
nsht045	*		DATE		DT_FOR_INV_REV
nsht046	*		DATE		DT_RTND_2_TUO
nsht047	*		STRING	1	EVALUATOR
nsht048	*		STRING	3	FIN_CLASS
nsht049	*		DATE		DT_PUB_REF_TO_PO
nsht050	*		DATE		DT_PUB_REF_CONT
nsht051	*		DATE		DT_NTR_TO_TB_TW
nsht052	*		DATE		DT_DFT_TB_TO_INV
nsht053	*		DATE		DT_FIN_TB_TO_LTS
nsht054	*		DATE		DT_CAM_CPY_2_PUB
nsht055	*		DATE		DT_TSP_DFT_START
nsht056	*		DATE		DT_TSP_AVL_4_DIS
nsht057	*		STRING	1	DELETE_FLAG
nsht058	*		STRING	1	ARC_FLAG
nsht059	*		STRING	1	MORE_INNOV

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SECTION 1 LOCAL DATABASES NTR FORMS SCHEMA LISTING

RECORD/FIELD	NEW	REF	TYPE	LEN	LONG NAME
ntrs_rep					NEW_TECH_REPORT
*ntrs001			STRING	9	NTR_NO
ntrs003			STRING	1	NTRS_ARCHIVE
ntrs004			STRING	1	NTRS_DELETE
ntrs018			COMB		ABS_INNOV_
ntrs018a			STRING	66	ABS_INNOV_A
ntrs018b			STRING	66	ABS_INNOV_B
ntrs018c			STRING	66	ABS_INNOV_C
ntrs018d			STRING	66	ABS_INNOV_D
ntrs018e			STRING	66	ABS_INNOV_E
ntrs018f			STRING	66	ABS_INNOV_F
ntrs018g			STRING	66	ABS_INNOV_G
ntrs018h			STRING	66	ABS_INNOV_H
ntrs018i			STRING	66	ABS_INNOV_I
ntrs018j			STRING	66	ABS_INNOV_J
ntrs018k			STRING	66	ABS_INNOV_K
ntrs018l			STRING	66	ABS_INNOV_L
ntrs018m			STRING	66	ABS_INNOV_M
ntrs018n			STRING	66	ABS_INNOV_N
ntrs018o			STRING	66	ABS_INNOV_O
ntrs018p			STRING	66	ABS_INNOV_P
ntrs018q			STRING	66	ABS_INNOV_Q
ntrs019			STRING	3	PROG_SIG
ntrs020			STRING	3	TECH_SIG
ntrs021			STRING	1	DEV_STATE
ntrs022			COMB		NOVELTY
ntrs022a			STRING	66	NOVELTY_A
ntrs022b			STRING	66	NOVELTY_B
ntrs022c			STRING	66	NOVELTY_C
ntrs022d			STRING	66	NOVELTY_D
ntrs022e			STRING	66	NOVELTY_E
ntrs022f			STRING	66	NOVELTY_F
ntrs022g			STRING	66	NOVELTY_G
ntrs022h			STRING	66	NOVELTY_H
ntrs022i			STRING	66	NOVELTY_I
ntrs022j			STRING	66	NOVELTY_J
ntrs022k			STRING	66	NOVELTY_K
ntrs022l			STRING	66	NOVELTY_L
ntrs022m			STRING	66	NOVELTY_M
ntrs022n			STRING	66	NOVELTY_N
ntrs022o			STRING	66	NOVELTY_O
ntrs022p			STRING	66	NOVELTY_P
ntrs022q			STRING	66	NOVELTY_Q
ntrs023			COMB		PROBLEM
ntrs023a			STRING	66	PROBLEM_A
ntrs023b			STRING	66	PROBLEM_B
ntrs023c			STRING	66	PROBLEM_C

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SECTION 1

LOCAL DATABASES

NTR FORMS SCHEMA LISTING

RECORD/FIELD	NEW	REF	TYPE	LEN	LONG NAME
ntrs023d			STRING	66	PROBLEM_D
ntrs023e			STRING	66	PROBLEM_E
ntrs023f			STRING	66	PROBLEM_F
ntrs023g			STRING	66	PROBLEM_G
ntrs023h			STRING	66	PROBLEM_H
ntrs023i			STRING	66	PROBLEM_I
ntrs023j			STRING	66	PROBLEM_J
ntrs023k			STRING	66	PROBLEM_K
ntrs023l			STRING	66	PROBLEM_L
ntrs023m			STRING	66	PROBLEM_M
ntrs023n			STRING	66	PROBLEM_N
ntrs023o			STRING	66	PROBLEM_O
ntrs023p			STRING	66	PROBLEM_P
ntrs023q			STRING	66	PROBLEM_Q
ntrs024			COMB		SOLUTION
ntrs024a			STRING	66	SOLUTION_A
ntrs024b			STRING	66	SOLUTION_B
ntrs024c			STRING	66	SOLUTION_C
ntrs024d			STRING	66	SOLUTION_D
ntrs024e			STRING	66	SOLUTION_E
ntrs024f			STRING	66	SOLUTION_F
ntrs024g			STRING	66	SOLUTION_G
ntrs024h			STRING	66	SOLUTION_H
ntrs024i			STRING	66	SOLUTION_I
ntrs024j			STRING	66	SOLUTION_J
ntrs024k			STRING	66	SOLUTION_K
ntrs024l			STRING	66	SOLUTION_L
ntrs024m			STRING	66	SOLUTION_M
ntrs024n			STRING	66	SOLUTION_N
ntrs024o			STRING	66	SOLUTION_O
ntrs024p			STRING	66	SOLUTION_P
ntrs024q			STRING	66	SOLUTION_Q

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SECTION 1 LOCAL DATABASES NTR TRACKING SCHEMA LISTING

RECORD/FIELD	NEW	REF	TYPE	LEN	LONG NAME
*ntrk001			STRING	9	NEW_TECH_RPT_NO
ntrk003			STRING	1	NTRK_ARCHIVE
ntrk004			STRING	1	NTRK_DELETE
ntrk009a			STRING	10	PREP_FNAME
ntrk009b			STRING	1	PREP_MI
ntrk009c			STRING	20	PREP_LNAME
ntrk010			DATE		DT_NTR_RCV_N_TUO
ntrk011			DATE		DT_INNOV_NOTIF
ntrk012			DATE		DT_PO_SENT_NTR4R
ntrk013			DATE		DT_RSP_RCV_FM_PO
ntrk014			DATE		DT_SENT_TO_SC
ntrk015			DATE		DT_RECV_FROM_SC
ntrk016			STRING	4	SC_CLASS
ntrk018			DATE		DT_SMTADD_INF2SC
ntrk019			DATE		DT_SC_REVAL_RECV
ntrk020			STRING	4	SC_RECLASS
ntrk021			DATE		DT_RMV_FRM_C_LIB
ntrk022			DATE		DT_TR_FROM_C
ntrk023			DATE		DT_2N_4RSP4S_EVL
ntrk024			DATE		DT_RP2SEVRCVBYTU
ntrk025			DATE		DT_TUO_FNL_CLASS
ntrk027			DATE		DT_INV_NOT_TUODC
ntrk028			DATE		DT_TTA_NOTIF
ntrk029			STRING	8	RECON_NO
ntrk030			DATE		DT_DRFT_NTR_2_TW
ntrk031			DATE		DT_IN_DRFTB_FMTW
ntrk032			DATE		DT_INT_DFTB_2_IR
ntrk033			DATE		DT_FROM_IR
ntrk034			DATE		DT_CR_DRFTB_2_TW
ntrk035			DATE		DT_FNLDTB_FM_TW
ntrk036			DATE		DT_NTR_SNT_2_LTS.
ntrk037			DATE		DT_DRF_PTB_FM_L
ntrk038			DATE		DT_DRF_PTB_TO_IR
ntrk039			DATE		DT_DRF_PTB_FM_IR
ntrk040			DATE		DT_DRF_PTB_BCK2L
ntrk041			DATE		DT_FNL_TB_FM_LTS
ntrk042			DATE		DT_FINL_TB_2_LTS
ntrk043			DATE		DT_PUB_REF_TO_PO
ntrk044			DATE		DT_PUB_REF_FM_PO
ntrk045			STRING	16	PATOFF_PUB_DEC
ntrk047			DATE		DT_PUB_REF_CONT
ntrk048			DATE		DT_PUB_DEC_CONT
ntrk049			STRING	16	CONT_PUB_DEC
ntrk050			STRING	1	PRCO_CL_INCL
ntrk051			STRING	1	CONT_ELT_RET

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SECTION 1 LOCAL DATABASES NTR TRACKING SCHEMA LISTING

RECORD/FIELD	NEW	REF	TYPE	LEN	LONG NAME
ntrk052			STRING	1	PAT_RIT_WV_BY_NS
ntrk053			STRING	1	PRSB_CL_INCL
ntrk054a			STRING	10	LISC_FNAME
ntrk054b			STRING	1	LISC_MI
ntrk054c			STRING	20	LISC_LNAME
ntrk055a			STRING	30	LISC_ADS1
ntrk055b			STRING	30	LISC_ADS2
ntrk055c			STRING	30	LISC_ADS2
ntrk055d			STRING	25	LISC_CITY
ntrk055e			STRING	2	LISC_ST
ntrk055f			STRING	5	LISC_ZIP
ntrk055g			STRING	4	LISC_ZIPS
ntrk056a			STRING	3	LISC_PN_AC
ntrk056b			STRING	8	LISC_PN_NO
ntrk056c			STRING	4	LISC_PN_EXT
ntrk057			DATE		DT_NTR_2TL4_TSP
ntrk058			DATE		DT_ID_TSP_FRM_TL
ntrk059			DATE		DT_ID_TSP_2_IR
ntrk060			DATE		DT_TSP_FRM_INHRV
ntrk061			DATE		DT_CR_D_TSP_2_TL
ntrk062			DATE		DT_FNL_TSP_FM_TL
ntrk063			DATE		DT_FNL_TSP_2STIF
ntrk066			COMB		COMMENTS
ntrk066a			STRING	66	COMMENTS_PUB1
ntrk066b			STRING	66	COMMENTS_PUB2
ntrk067			DATE		DT_TB_AWD_TO_HQ
ntrk068			DATE		DT_TB_AWD_FRM_HQ
ntrk069			AMOUNT	11	AMT_TB_AWD
ntrk070			DATE		DT_TB_PM
ntrk071			DATE		DT_PAT_AWD_TO_HQ
ntrk072			DATE		DT_PAT_AWD_FM_HQ
ntrk073			AMOUNT	11	AMT_PAT_AWD
ntrk074			DATE		DT_PAT_PM
ntrk075			STRING	20	OTH_ADW1_NAME
ntrk076			DATE		DT_OTH_ADW1_2_EV
ntrk077			DATE		DT_OF_OTH_EVALTN
ntrk078a			STRING	10	OTHAWD1_EV_FNAME
ntrk078b			STRING	1	OTHAWD1_EV_M_INT
ntrk078c			STRING	20	OTHAWD1_EV_LNAME
ntrk079			STRING	20	OTH_AWD1_RECOM
ntrk080			AMOUNT	11	OTH_AWD1_AMT
ntrk081			DATE		DT_OTH_AWD1_PM

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SECTION 1 LOCAL DATABASES NTR EVALUATION SCHEMA LISTING

RECORD/FIELD	NEW	REF	TYPE	LEN	LONG NAME
ntr_eval					NTR_EVAL
*eval001			STRING	9	SRI_NO
eval002			STRING	9	NTR_NO
eval003			COMB		NT_TITLE
eval003a			STRING	66	NT_TITLE_A
eval003b			STRING	66	NT_TITLE_B
eval003c			STRING	66	NT_TITLE_C
eval004			DATE		DT_RCV_4_EVAL
eval005			DATE		DT_RET_TUO
eval006			STRING	3	RECOM_RATE
eval007a			STRING	10	EVAL_F_NM
eval007b			STRING	1	EVAL_MI_IN
eval007c			STRING	20	EVAL_L_NM
eval008			STRING	60	EVAL_ORG_NM
eval009			STRING	1	EVAL_TYPE
eval010			STRING	1	REL_CENT_DB
eval011			DATE		DT_2_EVAL1
eval012			DATE		DT_DUE_EVAL1
eval013			STRING	65	CAUSE_DELAY
eval014			DATE		DT_2_EVAL2
eval015			DATE		DT_DUE_EVAL2
eval016			DATE		DT_EVAL_CMPL
eval017			COMB		EVAL_COMMENTS
eval017a			STRING	66	EVAL_COMM_A
eval017b			STRING	66	EVAL_COMM_B
eval017c			STRING	66	EVAL_COMM_C
eval017d			STRING	66	EVAL_COMM_D
eval017e			STRING	66	EVAL_COMM_E
eval017f			STRING	66	EVAL_COMM_F
eval018			STRING	1	DELETE_FLG
eval019			STRING	1	ARCHIVE_FLG
eval020a			STRING	10	EVAL2_F_NM
eval020b			STRING	1	EVAL2_MI_INT
eval020c			STRING	20	EVAL2_L_NM

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SECTION 1 LOCAL DATABASES NTR EVALUATION SCHEMA LISTING

RECORD/FIELD	NEW	REF	TYPE	LEN	LONG NAME
eval021			COMB		EVAL_REPORT
eval021a			STRING	66	EVAL_RPT_A
eval021b			STRING	66	EVAL_RPT_B
eval021c			STRING	66	EVAL_RPT_C
eval021d			STRING	66	EVAL_RPT_D
eval021e			STRING	66	EVAL_RPT_E
eval021f			STRING	66	EVAL_RPT_F
eval021g			STRING	66	EVAL_RPT_G
eval021h			STRING	66	EVAL_RPT_H
eval021i			STRING	66	EVAL_RPT_I
eval021j			STRING	66	EVAL_RPT_J
eval021k			STRING	66	EVAL_RPT_K
eval021l			STRING	66	EVAL_RPT_L
eval021m			STRING	66	EVAL_RPT_M
eval021n			STRING	66	EVAL_RPT_N
eval021o			STRING	66	EVAL_RPT_O
eval021p			STRING	66	EVAL_RPT_P
eval021q			STRING	66	EVAL_RPT_Q
eval022	*		COMB		EVAL_REPORT_2
eval022a	*		STRING	66	EVAL_RPT_2A
eval022b	*		STRING	66	EVAL_RPT_2B
eval022c	*		STRING	66	EVAL_RPT_2C
eval022d	*		STRING	66	EVAL_RPT_2D
eval022e	*		STRING	66	EVAL_RPT_2E
eval022f	*		STRING	66	EVAL_RPT_2F
eval022g	*		STRING	66	EVAL_RPT_2G
eval022h	*		STRING	66	EVAL_RPT_2H
eval022i	*		STRING	66	EVAL_RPT_2I
eval022j	*		STRING	66	EVAL_RPT_2J
eval022k	*		STRING	66	EVAL_RPT_2K
eval022l	*		STRING	66	EVAL_RPT_2L
eval022m	*		STRING	66	EVAL_RPT_2M
eval022n	*		STRING	66	EVAL_RPT_2N
eval022o	*		STRING	66	EVAL_RPT_2O
eval022p	*		STRING	66	EVAL_RPT_2P
eval022q	*		STRING	66	EVAL_RPT_2Q
eval023			STRING	3	RECLASS_NO
eval024			STRING	1	LITERAT_S_I
eval025	*		STRING	3	SITE_ID

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SECTION 1 LOCAL DATABASES TU PROJECTS SCHEMA LISTING

RECORD/FIELD	NEW	REF	TYPE	LEN	LONG NAME
projects					TU_PROJECTS
*proj001			STRING	9	REC_NO
proj002			STRING	15	TOPIC_CAT
proj003			STRING	60	PROJ_TIT
proj004			COMB		PROJ_ABS
proj004a			STRING	66	PROJ_ABS_A
proj004b			STRING	66	PROJ_ABS_B
proj004c			STRING	66	PROJ_ABS_C
proj004d			STRING	66	PROJ_ABS_D
proj004e			STRING	66	PROJ_ABS_E
proj004f			STRING	66	PROJ_ABS_F
proj004g			STRING	66	PROJ_ABS_G
proj004h			STRING	66	PROJ_ABS_H
proj004i			STRING	66	PROJ_ABS_I
proj004j			STRING	66	PROJ_ABS_J
proj005			STRING	10	CENT_NAME
proj006a			STRING	10	TUO_F_NM
proj006b			STRING	1	TUO_M_INT
proj006c			STRING	20	TUO_L_NM
proj007a			STRING	3	TUO_PN_AC
proj007b			STRING	8	TUO_PN_NO
proj007c			STRING	4	TUO_PN_EXT
proj008			DATE		DT_PLAN1
proj009			DATE		DT_ACT1
proj010			DATE		DT_PLAN2
proj011			DATE		DT_ACT2
proj012			DATE		DT_PLAN3
proj013			DATE		DT_ACT3
proj014			DATE		DT_PLAN4
proj015			DATE		DT_ACT4
proj016			DATE		DT_PLAN5
proj017			DATE		DT_ACT5
proj018			DATE		DT_PLAN6
proj019			DATE		DT_ACT6
proj020			DATE		DT_PLAN7
proj021			DATE		DT_ACT7
proj022			DATE		DT_PLAN8
proj023			DATE		DT_ACT8
proj024			DATE		DT_PLAN9
proj025			DATE		DT_ACT9
proj026			COMB		ACCOMPLISHMENTS
proj026a			STRING	66	ACCOMP_A
proj026b			STRING	66	ACCOMP_B
proj026c			STRING	66	ACCOMP_C
proj026d			STRING	66	ACCOMP_D
proj026e			STRING	66	ACCOMP_E

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LOCAL DATABASES

TU PROJECTS SCHEMA LISTING

RECORD/FIELD	NEW	REF	TYPE	LEN	LONG NAME
proj026f			STRING	66	ACCOMP_F
proj026g			STRING	66	ACCOMP_G
proj026h			STRING	66	ACCOMP_H
proj026i			STRING	66	ACCOMP_I
proj026j			STRING	66	ACCOMP_J
proj026k			STRING	66	ACCOMP_K
proj026l			STRING	66	ACCOMP_L
proj026m			STRING	66	ACCOMP_M
proj026n			STRING	66	ACCOMP_N
proj026o			STRING	66	ACCOMP_O
proj026p			STRING	66	ACCOMP_P
proj027			STRING	1	FUND_STATUS
proj028			STRING	1	TYPE_PROJ
proj029a			STRING	10	TECH_F_NM
proj029b			STRING	1	TECH_M_INT
proj029c			STRING	20	TECH_L_NM
proj030			STRING	12	RTOP_NO
proj031			DATE		STATUS_DAT
proj032			COMB		PROBLEMS
proj032a			STRING	66	PROBLEMS_A
proj032b			STRING	66	PROBLEMS_B
proj032c			STRING	66	PROBLEMS_C
proj032d			STRING	66	PROBLEMS_D
proj032e			STRING	66	PROBLEMS_E
proj032f			STRING	66	PROBLEMS_F
proj032g			STRING	66	PROBLEMS_G
proj032h			STRING	66	PROBLEMS_H
proj032i			STRING	66	PROBLEMS_I
proj032j			STRING	66	PROBLEMS_J
proj032k			STRING	66	PROBLEMS_K
proj032l			STRING	66	PROBLEMS_L
proj032m			STRING	66	PROBLEMS_M
proj032n			STRING	66	PROBLEMS_N
proj032o			STRING	66	PROBLEMS_O
proj032p			STRING	66	PROBLEMS_P
proj033			COMB		ACT_NQTR
proj033a			STRING	66	ACT_NQTR_A
proj033b			STRING	66	ACT_NQTR_B
proj033c			STRING	66	ACT_NQTR_C
proj033d			STRING	66	ACT_NQTR_D
proj033e			STRING	66	ACT_NQTR_E
proj033f			STRING	66	ACT_NQTR_F
proj033g			STRING	66	ACT_NQTR_G
proj033h			STRING	66	ACT_NQTR_H
proj033i			STRING	66	ACT_NQTR_I
proj033j			STRING	66	ACT_NQTR_J

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SECTION 1 LOCAL DATABASES TU PROJECTS SCHEMA LISTING

RECORD/FIELD	NEW	REF	TYPE	LEN	LONG NAME
proj033k			STRING	66	ACT_NQTR_K
proj033l			STRING	66	ACT_NQTR_L
proj033m			STRING	66	ACT_NQTR_M
proj033n			STRING	66	ACT_NQTR_N
proj033o			STRING	66	ACT_NQTR_O
proj033p			STRING	66	ACT_NQTR_P
proj034	*		AMOUNT	11	NASA_REF_CUM
proj035	*		AMOUNT	11	NASA_FUND_CUM
proj036	*		AMOUNT	11	NASA_COMM_CUM
proj037	*		AMOUNT	11	NASA_OBLIG_CUM
proj038	*		AMOUNT	11	NASA_COSTED_CUM
proj039	*		AMOUNT	11	TOT_OTHER
proj040	*		COMB		OTHER_SOURCE
proj040a	*		STRING	66	OTHER_SOURCE_A
proj040b	*		STRING	66	OTHER_SOURCE_B
proj040c	*		STRING	66	OTHER_SOURCE_C
proj041	*		DATE		DATE_LAST_CHG
proj042	*		DATE		DATE_CERT
proj043	*		STRING	1	DELETE_FLAG
proj044	*		DATE		DATE_2CENT
proj045	*		STRING	1	REL_2CENT

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SECTION 1 LOCAL DATABASES SPACE BENEFITS SCHEMA LISTING

RECORD/FIELD	NEW	REF	TYPE	LEN	LONG NAME
ben_loc	*				BENEFITS_LOCAL
*ben1001			STRING	9	REC_NO
ben1002	*		COMB		TITLE
ben1002a	*		STRING	66	TITLE_A
ben1002b	*		STRING	66	TITLE_B
ben1002c	*		STRING	66	TITLE_C
ben1003	*		STRING	66	SPINOFF_REF
ben1004	*		STRING	10	CENTER
ben1005	*		STRING	21	LOCAL_NO
ben1006	*		COMB		TECH_TERMS
ben1006a	*		STRING	66	TECH_TERMS_A
ben1006b	*		STRING	66	TECH_TERMS_B
ben1007	*		COMB		SUMMARY
ben1007a	*		STRING	66	SUMMARY_A
ben1007b	*		STRING	66	SUMMARY_B
ben1007c	*		STRING	66	SUMMARY_C
ben1007d	*		STRING	66	SUMMARY_D
ben1007e	*		STRING	66	SUMMARY_E
ben1007f	*		STRING	66	SUMMARY_F
ben1008	*		STRING	1	NATURE_OF_BEN
ben1009	*		STRING	1	OTHER_BENIES
ben1010	*		STRING	1	RED_CST
ben1015	*		AMOUNT	11	REDUC_COST
ben1017	*		STRING	1	INC_REVENUE
ben1018	*		AMOUNT	11	INC_REV_DOLLARS
ben1019	*		STRING	10	RED_CST_PER
ben1020	*		STRING	10	INC_REV_PER
ben1021	*		COMB		NOTES_PG3
ben1021a	*		STRING	66	NOTES_PG3_A
ben1021b	*		STRING	66	NOTES_PG3_B
ben1021c	*		STRING	66	NOTES_PG3_C
ben1021d	*		STRING	66	NOTES_PG3_D
ben1021e	*		STRING	66	NOTES_PG3_E
ben1021f	*		STRING	66	NOTES_PG3_F
ben1022	*		STRING	16	PATENT_NO
ben1023	*		DATE		PATENT_DATE
ben1024	*		STRING	66	ORGANIZATION
ben1025a	*		STRING	30	ORG_ADS1
ben1025b	*		STRING	30	ORG_ADS2
ben1025c	*		STRING	30	ORG_ADS3
ben1025d	*		STRING	25	ORG_CITY
ben1025e	*		STRING	2	ORG_ST

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SECTION 1 LOCAL DATABASES SPACE BENEFITS SCHEMA LISTING

RECORD/FIELD	NEW	REF	TYPE	LEN	LONG NAME
ben1025f	*		STRING	5	ORG_ZIP
ben1025g	*		STRING	4	ORG_ZIPS
ben1026a	*		STRING	10	CONTACT_FNAME
ben1026b	*		STRING	1	CONTACT_MI
ben1026c	*		STRING	20	CONTACT_LNAME
ben1026d	*		STRING	3	CONTACT_PN_AC
ben1026e	*		STRING	8	CONTACT_PN_NO
ben1026f	*		STRING	4	CONTACT_PN_EXT
ben1027	*		COMB		NASA_SOURCE
ben1027a	*		STRING	66	NASA_SOURCE_A
ben1027b	*		STRING	66	NASA_SOURCE_B
ben1027c	*		STRING	66	NASA_SOURCE_C
ben1027d	*		STRING	66	NASA_SOURCE_D
ben1027e	*		STRING	66	SOURCE_PB9_E
ben1027f	*		STRING	66	NASA_SOURCE_F
ben1028	*		STRING	1	TYPE_OF_USER
ben1029	*		COMB		NOTES_USER
ben1029a	*		STRING	66	NOTES_USER_A
ben1029b	*		STRING	66	NOTES_USER_B
ben1029c	*		STRING	66	NOTES_USER_C
ben1029d	*		STRING	66	NOTES_USER_D
ben1030	*		STRING	30	SMSA
ben1031	*		STRING	30	EDA
ben1032	*		STRING	30	COUNTY
ben1033	*		STRING	30	CONG_DISTRICT
ben1034	*		COMB		NOTES_LOC
ben1034a	*		STRING	66	NOTES_LOC_A
ben1034b	*		STRING	66	NOTES_LOC_B
ben1034c	*		STRING	66	NOTES_LOC_C
ben1034d	*		STRING	66	NOTES_LOC_D
ben1034e	*		STRING	66	NOTES_LOC_E
ben1034f	*		STRING	66	NOTES_LOC_F
ben1035	*		AMOUNT	11	TOTAL_VALUE
ben1036	*		COMB		TRANS_LIT_PG13

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SECTION 1 LOCAL DATABASES SPACE BENEFITS SCHEMA LISTING

RECORD/FIELD	NEW	REF	TYPE	LEN	LONG NAME
ben1036a	*		STRING	66	TRANS_LIT_PG13_A
ben1036b	*		STRING	66	TRANS_LIT_PG13_B
ben1036c	*		STRING	66	TRANS_LIT_PG13_C
ben1036d	*		STRING	66	TRANS_LIT_PG13_D
ben1036e	*		STRING	66	TRANS_LIT_PG13_E
ben1036f	*		STRING	66	TRANS_LIT_PG13_F
ben1036g	*		STRING	66	TRANS_LIT_PG13_G
ben1037	*		STRING	1	PROP_DATA
ben1038	*		STRING	1	FRT_NASA_CONT
ben1039	*		STRING	1	NASA_REFERRAL
ben1040	*		STRING	1	USE_NASA_AGAIN
ben1041	*		COMB		TRANSFER_NOTES
ben1041a	*		STRING	66	TRANSFER_NA
ben1041b	*		STRING	66	TRANSFER_NB
ben1041c	*		STRING	66	TRANSFER_NC
ben1041d	*		STRING	66	TRANSFER_ND
ben1041e	*		STRING	66	TRANSFER_NE
ben1041f	*		STRING	66	TRANSFER_NF
ben1041g	*		STRING	66	TRANSFER_NG
ben1041h	*		STRING	66	TRANSFER_NH
ben1041i	*		STRING	66	TRANSFER_NI
ben1042	*		STRING	2	USER_ST
ben1043	*		STRING	5	USER_ZIP
ben1044	*		STRING	4	USER_ZIPS
ben1045	*		STRING	25	USER_CITY
ben1046	*		AMOUNT	11	TOT_INV_N_BEN
ben1047	*		AMOUNT	11	TOT_INV_N_EQUIP
ben1048	*		AMOUNT	11	TOT_INV_N_MAT
ben1049	*		AMOUNT	11	TOT_INV_N_PER
ben1050	*		AMOUNT	11	TOT_INV_N_OTH
ben1051	*		STRING	1	ARC_FLG
ben1052	*		STRING	1	DEL_FLG
ben1053	*		STRING	1	OTHER_BENI
ben1054	*		AMOUNT	11	OTHER_BENI_DOLLR
ben1055	*		STRING	10	OTHER_BENI_PER
ben1056	*		STRING	1	NUM_EMPLOYEES
ben1057	*		STRING	30	USER_SPEC_REGION
ben1058	*		STRING	1	RELEASE_2_CENT
ben1059	*		DATE		DATE_2_CENT

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SECTION 1 LOCAL DATABASES SPACE BENEFITS SCHEMA LISTING

RECORD/FIELD	NEW	REF	TYPE	LEN	LONG NAME
ben1060	*		COMB		NOTES_PG4
ben1060a	*		STRING	66	NOTES_PG4_A
ben1060b	*		STRING	66	NOTES_PG4_B
ben1060c	*		STRING	66	NOTES_PG4_C
ben1060d	*		STRING	66	NOTES_PG4_D
ben1060e	*		STRING	66	NOTES_PG4_E
ben1060f	*		STRING	66	NOTES_PG4_F
ben1061	*		COMB		NOTES_PG5
ben1061a	*		STRING	66	NOTES_PG5_A
ben1061b	*		STRING	66	NOTES_PG5_B
ben1061c	*		STRING	66	NOTES_PG5_C
ben1061d	*		STRING	66	NOTES_PG5_D
ben1062	*		COMB		BEN_SOURCE
ben1062a	*		STRING	66	BEN_SOURCE_A
ben1062b	*		STRING	66	BEN_SOURCE_B
ben1062c	*		STRING	66	BEN_SOURCE_C
ben1062d	*		STRING	66	BEN_SOURCE_D
ben1062e	*		STRING	66	BEN_SOURCE_E
ben1062f	*		STRING	66	BEN_SOURCE_F
ben1063	*		AMOUNT	11	ESTIMATE_BEN

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SECTION 1 LOCAL DATABASES ADDITONAL INNOVATORS SCHEMA LISTING

RECORD/FIELD	NEW	REF	TYPE	LEN	LONG NAME
*ext001	*		STRING	6	INNOVATOR_CODE
ext002	*		STRING	9	NTR_NUMBER
ext003	*		DATE		DT_REQ_2_HQ
ext004	*		DATE		DT_CK_2_INNOV

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SECTION 2

DATABASE ELEMENTS DESCRIPTIONS

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SECTION 2 DATABASE ELEMENTS DESCRIPTIONS TU PROJECTS (CENTRAL)

RECORD/FIELD	LONG NAME	NEW ELEMENT	DESCRIPTION
*proj001	REC_NO		A 9 character field automatically generated by TUNS. This number becomes the unique identifier of the record.
proj002	TOPIC_NO		A 15 character field that contains the topic or category under which the application project falls in the TU project database.
proj003	PROJ_TIT		A 60 character field that contains the official title of the application project.
proj004	PROJ_ABS		16 lines of 66 characters each. This technical abstract states the nature of the project.
proj005	CENT_NAME		A 10 character field which names the center involved in the application project.
proj006a	TUO_F_NM		A 10 character field for first name of the Technology Utilization Officer at the identified site.
proj006b	TUO_M_INT		A one character field for the middle initial of the Technology Utilization Officer at the identified site.
proj006c	TUO_L_NM		A 20 character field for the last name of the Technology Utilization Officer at the identified site.
proj007a	TUO_PN_AC		A 3 character field for the area code of the TUO.
proj007b	TUO_PN_NO		A 7 character field for the commercial telephone number of the TUO.
proj007c	TUO_PN_EXT		A 4 character field for the extension of the Technology Utilization Officer.

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SECTION 2 DATABASE ELEMENTS DESCRIPTIONS TU PROJECTS (CENTRAL)

RECORD/FIELD	LONG NAME	NEW ELEMENT	DESCRIPTION
proj008	DT_PLAN1		An 8 character date field to be completed in the MM/DD/YY format for an estimated project milestone date.
proj009	DT_ACT1		An 8 character date field to be completed in the MM/DD/YY format for an actual project milestone date.
proj010	DT_PLAN2		An 8 character date field to be completed in the MM/DD/YY format for the planned date of the feasibility study.
proj011	DT_ACT2		An 8 character date field to be completed in the MM/DD/YY format for the actual date for the feasibility study.
proj012	DT_PLAN3		An 8 character date field to be completed in the MM/DD/YY format for the planned date of the contract award.
proj013	DT_ACT3		An 8 character date field to be completed in the MM/DD/YY format for the actual date of the contract award.
proj014	DT_PLAN4		An 8 character date field to be completed in the MM/DD/YY format for the planned date of the prototype development.
proj015	DT_ACT4		An 8 character date field to be completed in the MM/DD/YY format for the actual date of the prototype development.
proj016	DT_PLAN5		An 8 character date field to be completed in the MM/DD/YY format for the planned date of optimization (hardware/software).
proj017	DT_ACT5		An 8 character date field to be completed in the MM/DD/YY format for the actual date of optimization (hardware/software).

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SECTION 2 DATABASE ELEMENTS DESCRIPTIONS TU PROJECTS (CENTRAL)

RECORD/FIELD	LONG NAME	NEW ELEMENT	DESCRIPTION
proj018	DT_PLAN6		An 8 character date field to be completed in the MM/DD/YY format for the planned date of the field/lab. demo/implementation.
proj019	DT_ACT6		An 8 character date field to be completed in the MM/DD/YY format for the actual date of the field/lab. demo/implementation.
proj020	DT_PLAN7		An 8 character date field to be completed in the MM/DD/YY format for the planned date that the final report/handbook/spec was to be made available to the public.
proj021	DT_ACT7		An 8 character date field to be completed in the MM/DD/YY format for the actual date that the final report/handbook/spec was made available to the public.
proj022	DT_PLAN8		An 8 character date field to be completed in the MM/DD/YY format for the planned date that the product was to be made available to the public.
proj023	DT_ACT8		An 8 character date field to be completed in the MM/DD/YY format for the actual date that the product was released to the public.
proj024	DT_PLAN9		An 8 character date field to be completed in the MM/DD/YY format for the planned date for project completion.
proj025	DT_ACT9		An 8 character date field to be completed in the MM/DD/YY format for the actual date that the project was completed.
proj026	ACCOMPLISHMENTS		8 lines of 66 characters each. These accomplishment notes are used to inform the project manager of the project's status.

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SECTION 2 DATABASE ELEMENTS DESCRIPTIONS TU PROJECTS (CENTRAL)

RECORD/FIELD	LONG NAME	NEW ELEMENT	DESCRIPTION
proj027	FUND_STATUS		A single character field A = Application; C = CCDS (Center for the Commercialization of Space). This element describes the type of project.
proj027a	TECH_F_NM		A 10 character field for the first name of the technical person who works on the project.
proj27b	TECH_M_INT		A single character field for the middle initial of the technical person who works on the project.
proj027c	TECH_L_NM		A 20 character field for the last name of the technical person who works on the project.
proj028	RTOP_NO		A 9 character field for the NASA Research and Development Objectives and Plans Summary number. This number tracks NASA in-house R & D efforts.
proj029	STATUS_DAT		An 8 character date field to be completed in the MM/DD/YY format used to record the date on which status is assessed.
proj030	PROBLEMS		16 lines of 66 characters each to record synopsis of the problem which was solved by the NT item.
proj031	ACT_NQTR		16 lines of 66 characters each to record the planned activities for the next quarter.
proj032	NASA_REQ_CUM	*	A 12 character amount field for the cumulative amount of NASA funding requested.
proj033	NASA_FUND_CUM	*	A 12 character amount field for the cumulative amount of NASA funding provided by Form 506.
proj034	NASA_COMM_CUM	*	A 12 character amount field for the cumulative amount of NASA committed funding.

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SECTION 2 DATABASE ELEMENTS DESCRIPTIONS TU PROJECTS (CENTRAL)

RECORD/FIELD	LONG NAME	NEW ELEMENT	DESCRIPTION
proj035	NASA_OBLIG_CUM	*	A 12 character amount field for the cumulative amount of NASA obligated funding.
proj036	NASA_COSTED_CUM	*	A 12 character amount field for the cumulative amount of NASA costed funding.
proj037	TOT_OTHER	*	A 12 character amount field for the cumulative amount of other funding.
proj038	OTHER_SOURCE	*	Descriptive name for the source of other funding.
proj039	DATE_LAST_CHG	*	An 8 character date field to be completed in the MM/DD/YY format for the date the project record was last updated by the TUO.
proj040	DATE_CERT	*	An 8 character date field to be completed in the MM/DD/YY format for the date RTI certified the contents of the record.
proj041	DATE_REL_2CENT	*	An 8 character date field to be completed in the MM/DD/YY format for the date the record is released to the central database.

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SECTION 2 DATABASE ELEMENTS DESCRIPTIONS SPACE BENEFITS (CENTRAL)

RECORD/FIELD	LONG NAME	NEW ELEMENT	DESCRIPTION
*nspb001	REC_NO	*	A 9 character field which TUNS automatically generates as the unique record identifier.
nspb002	TITLE	*	3 lines of 66 characters each. STIF Center's title of the Benefits Information spinoff. This particular STIF center identifies and maintains the spinoff.
nspb003	SPINOFF_REF	*	A field of 40 characters for the publication chapter of the spinoff.
nspb004	CENTER	*	A field of 10 characters for the name of the NASA TUO center that is the primary source of information on this innovation.
nspb005	LOCAL_NO	*	A 21 character field indicating the local identification number for the IAC.
nspb006	TECH_TERMS	*	2 lines of 66 characters each used for technical keywords that will help to identify the appropriate spinoff.
nspb007	SUMMARY	*	6 lines of 66 characters each used to describe the space benefit.
nspb008	NATURE_OF_BEN	*	Single character field which identifies the nature of the space benefit.
nspb009	CHANGE_NO_EMPLOY	*	A single character field indicating whether the benefit resulted in a change in the number of employees. Valid values are "Y" and "N".
nspb010	IMPROV_PROD_PLAN	*	A single character field indicating whether the product resulted in improved product planning.

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SECTION 2 DATABASE ELEMENTS DESCRIPTIONS SPACE BENEFITS (CENTRAL)

RECORD/FIELD	LONG NAME	NEW ELEMENT	DESCRIPTION
nspb011	IMPRO_DEC_PROB	*	A single character field indicating whether the benefit improved decision-making/problem-solving
nspb012	INCREASE_SALES	*	A single character field indicating whether the benefit increased sales.
nspb013	INCRS_AWARE_TECH	*	A single character field indicating whether the benefit increased awareness of technology.
nspb014	CONFIRM_INT_FIND	*	A single character field indicating whether the benefit confirmed the internal findings.
nspb015	REDUC_COST	*	A single character field indicating whether the benefit reduced costs.
nspb016	RED_CST_\$	*	An 11 character field for the amount of the cost reduction the benefit provided.
nspb017	RED_CST_PER	*	A 10 character field indicating the measurement standard for the cost reduction.
nspb018	INC_REVENUE	*	A single character field indicating whether the benefit increased revenue.
nspb019	NC_REV_\$	*	An 11 character field indicating the amount of revenue generated by the benefit.
nspb020	INC_REV_PER	*	A 10 character field indicating the measurement standard for revenue increase.
nspb021	NOTES_PG3	*	6 lines of 66 characters each for notes regarding the benefit's financial information.
nspb022	PATENT_NO	*	A 16 character field indicating the patent number assigned to the benefit.

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SECTION 2 DATABASE ELEMENTS DESCRIPTIONS SPACE BENEFITS (CENTRAL)

RECORD/FIELD	LONG NAME	NEW ELEMENT	DESCRIPTION
nspb023	PATENT_DATE	*	An 8 character date field to be completed in the MM/DD/YY format for the date the patent number was assigned.
nspb024	ORGANIZATION	*	A 66 character field identifying the organization responsible for developing the spinoff.
nspb025a	ORG_ADS1	*	3 lines of 30 characters each for the address of the company responsible for developing the spinoff.
nspb025b	ORG_ADS2	*	3 lines of 30 characters each for the address of the company responsible for developing the spinoff.
nspb025c	ORG_ADS3	*	3 lines of 30 characters each for the address of the company responsible for developing the spinoff.
nspb025d	ORG_CITY	*	A field of 25 characters for the city of the company responsible for developing the spinoff.
nspb025e	ORG_ST	*	A 2 character field for the state abbreviation of the company responsible for developing the spinoff.
nspb025f	ORG_ZIP	*	5 character field for the zip code of the company responsible for developing the spinoff.
nspb025g	ORG_ZIPS	*	4 character field for the zip code of the company responsible for developing the spinoff.
nspb026a	CONTACT_FNAME	*	A field of 10 characters for the first name of the innovator. Name could also refer to the person responsible for getting the innovation from the company developing the spinoff.
nspb026b	CONTACT_MI	*	A one character field for the middle initial of the innovator.

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SECTION 2 DATABASE ELEMENTS DESCRIPTIONS SPACE BENEFITS (CENTRAL)

RECORD/FIELD	LONG NAME	NEW ELEMENT	DESCRIPTION
nspb026c	CONTACT_LNAME	*	A field of 20 characters for the last name of the innovator.
nspb026d	CONTACT_PN_AC	*	A 3 character field for the area code of the innovator.
nspb026e	CONTACT_PN_NO	*	A 7 character field for the commercial phone number of the innovator.
nspb026f	CONTACT_PN_EXT	*	A 4 character field for the office extension of the innovator.
<i>C-32</i> <i>suggest - can be more than one.</i> nspb027	NASA_SOURCE	*	6 lines of 66 characters each indicating the NASA bibliographic sources that relate to the benefit.
nspb028	TYPE_OF_USER	*	A single character field indicating the code of the benefit's users.
nspb029	NOTES_USER	*	4 lines of 66 characters each for notes pertaining to the benefit's users.
<i>ARC -</i> <i>TVA</i> <i>1 char / 11/12?</i> nspb031	SMSA	*	A 30 character field indicating the Standard Metropolitan Statistical Area.
nspb032	EDA	*	A 30 character field indicating the Economic Development Area.
<i>C-33</i> <i>24,90.</i> nspb033	COUNTY	*	A 30 character field indicating the the benefit's users' county.
nspb034	CONG_DISTRICT	*	A 30 character field indicating the benefit's users' Congressional District.
nspb035	NOTES_LOC	*	6 lines of 66 characters each for notes regarding the benefit's users' location.
nspb037	TOTAL_VALUE	*	An 11 character field indicating the amount of the total value of the benefit.

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SECTION 2

DATABASE ELEMENTS DESCRIPTIONS

SPACE BENEFITS (CENTRAL)

RECORD/FIELD	LONG NAME	NEW ELEMENT	DESCRIPTION
nspb038	TRANS_LIT_PG13	*	7 lines of 66 characters each for bibliographic sources that relate to the benefit.
nspb039	PROP_DATA	*	A single character field indicating whether the information contained in this record is proprietary or whether it should be released. Valid values are "Y" or "N".
nspb045	FRT_NASA_CONT	*	A single character field used to indicate the NASA contact code.
nspb046	NASA_REFERRAL	*	A single character field used to indicate the referral code.
nspb047	USE_NASA_AGAIN	*	A single character field indicating whether to use NASA again. Valid values are "Y" or "N".
nspb048	TRANSFER_NOTES	*	9 lines of 66 characters each for notes pertaining to the transfer process.
nspb049	USER_ST	*	A 2 character field indicating the postal abbreviation of the user's state.
nspb050	USER_ZIP	*	A 5 character field indicating the postal zip code of the user.
nspb051	USER_ZIPS	*	A 4 character field indicating the postal zip code of the user.
nspb052	USER_CITY	*	A 25 character field indicating the user's city.
nspb053	TOT_INV_N_BEN	*	An 11 character field indicating the amount of the total investment in the benefit.
nspb054	TOT_INV_N_EQUIP	*	An 11 character field indicating the amount of the total investment in equipment.

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SECTION 2 DATABASE ELEMENTS DESCRIPTIONS SPACE BENEFITS (CENTRAL)

RECORD/FIELD	LONG NAME	NEW ELEMENT	DESCRIPTION
nspb055	TOT_INV_N_MAT	*	An 11 character field indicating the amount of the total investment in materials.
nspb056	TOT_INV_N_PER	*	An 11 character field indicating the amount of the total investment in personnel.
nspb057	TOT_INV_N_OTH	*	An 11 character field indicating the amount of the total investment in other.
nspb058	DATE_2CENT	*	An 8 character date field to be completed in the MM/DD/YY format for the date the record is released to the central database.
nspb060	NOTES_PG4	*	6 lines of 66 characters for notes on the company investment.
nspb061	NOTES_PG5	*	4 lines of 66 characters for notes for the first NASA contract.
nspb062	BEN_SOURCE	*	6 lines of 66 characters for notes on the benefit report.
nspb063	ESTIMATE_BEN	*	An 11 character field indicating the dollar amount for the total estimate of the benefit.

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SECTION 2 DATABASE ELEMENTS DESCRIPTIONS NTR EVALUATION/SUMMARY (CENTRAL)

RECORD/FIELD	LONG NAME	NEW ELEMENT	DESCRIPTION
*ntrc001	NTR_NO	*	A 9 character field which is the unique identifier of the NTR.
ntrc002	NTR_ITEM_DT	*	An 8 character date field to be completed in the MM/DD/YY format for the date the NTR was entered into the system.
ntrc003	DT_NTR_RCV_N TUO	*	An 8 character date field to completed in the MM/DD/YY format for the date the NTR was received in the TUO.
ntrc004	NTR_TITLE	*	2 lines of 66 characters each indicating the title of the NTR.
ntrc005	NTR_DESC	*	3 lines of 66 characters each containing the description of the NTR.
ntrc006	NTR_KEYS	*	2 lines of 66 characters each for keywords from the title and description of the NTR. The system will search this field on a keyword search.
ntrc007	REL_2_CENTRAL	*	A single character field indicating whether the record should be released to the central database. The valid values are "Y" or "N".
ntrc008	REL_2_IAC	*	A single character field indicating whether the record should be released to the IACs. The valid values are "Y" or "N".
ntrc009	REL_2_CLIENT	*	A single character field indicating whether the record should be released to the clients. The valid values are "Y" or "N".
ntrc010	NTR_ORIGIN	*	A single character field indicating the code of the NTR's origin.

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SECTION 2 DATABASE ELEMENTS DESCRIPTIONS NTR EVALUATION/SUMMARY (CENTRAL)

RECORD/FIELD	LONG NAME	NEW ELEMENT	DESCRIPTION
ntrc011	PUB_DECISION	*	A 16 character field indicating the decision to publish the NTR.
ntrc012	PAT_STATUS	*	A 2 character field indicating the patent status of the NTR.
ntrc013	TB_PUB_DATE	*	An 8 character date field to be completed in the format MM/DD/YY for the date the Technical Brief was published.
ntrc014	TB_PUB_VOL	*	A 3 character field indicating the volume of the Technical Brief.
ntrc015	TB_PUB_NO	*	A 3 character field indicating the publication number of the Technical Brief.
ntrc016	TB_PUB_PAGE	*	A 3 character field indicating the page number of the Technical Brief.
ntrc017	DT_TO_CENTRAL	*	An 8 character date field to be completed in the MM/DD/YY format for the date the record was released to the central database.
ntrc018	PREPARER_ID	*	A 3 character field indicating the initials of the preparer's name.
ntrc043	DT_TO_EVAL	*	An 8 character date field to be completed in the MM/DD/YY format for the date the award was given to the evaluator.
ntrc044	DT_FR_EVAL	*	An 8 character date field to be completed the MM/DD/YY format for the date the evaluator returned the award evaluation.
ntrc045	DT_FOR_INV_REV	*	An 8 character date field to be completed in the MM/DD/YY format for the date the award is sent to the innovator for review.

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SECTION 2 DATABASE ELEMENTS DESCRIPTIONS NTR EVALUATION/SUMMARY (CENTRAL)

RECORD/FIELD	LONG NAME	NEW ELEMENT	DESCRIPTION
ntrc046	DT_RTND_2_TUO	*	An 8 character date field to be completed in the MM/DD/YY format for the date the award is returned to the TUO.
ntrc047	EVALUATOR	*	A single character field. Enter either an "S" for "SRI" or a "C" for "COSMIC" to indicate who evaluates the NTR.
ntrc048	FIN_CLASS	*	A 4 character field for the rating given to the NTR for its innovative qualities and its applicability to industry. The TUO assigns this rating after the SRI classification is received. The rating scale is as follows: 1.0 (lowest)- 5.0 (highest).
ntrc049	DT_PUB_REQ_TO_PO	*	An 8 character date field to be completed in the MM/DD/YY format for the date the TUO requested permission to publish the associated NTR from the patent office.
ntrc050	DT_PUB_REQ_CONT	*	An 8 character date field to be completed in the MM/DD/YY format for the date the publication request from the TUO was sent to the contractor.
ntrc051	DT_NTR_TO_TB_TW	*	An 8 character date field to be completed in the MM/DD/YY format for the date the NTR was given to the technical writer for preparation of the draft publication version of the Tech Brief.
ntrc052	DT_DFT_TB_TO_INV	*	An 8 character date field to be completed in the MM/DD/YY format for the date the draft initial Tech Brief was given to the Innovator for review.
ntrc053	DT_FIN_TB_TO_LTS	*	An 8 character date field to be completed in the MM/DD/YY format for the date the final draft Tech Brief was sent to LTS for review.

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SECTION 2 DATABASE ELEMENTS DESCRIPTIONS NTR EVALUATION/SUMMARY (CENTRAL)

RECORD/FIELD	LONG NAME	NEW ELEMENT	DESCRIPTION
ntrc054	DT_CAM_CPY_2_PUB	*	An 8 character date field to be completed in the MM/DD/YY format for the date the camera ready copy of the final Tech Brief is sent to the publisher.
ntrc055	DT_TSP_DFT_START	*	An 8 character date field to be completed in the MM/DD/YY format. The start date of the Technical Support Package.
ntrc056	DT_TSP_AVL_4_DIS	*	An 8 character date field to be completed in the MM/DD/YY format for the date the Technical Support Package is available.
ntrc057	ABS_INNOV		17 lines of 66 characters each to record the abstract of the innovator's description of the NTR.
ntrc058	EVAL_REPORT		34 lines of 66 characters each to record the evaluation report of the NTR.

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SECTION 2 DATABASE ELEMENTS DESCRIPTIONS SHORT FORM (LOCAL)

RECORD/FIELD	LONG NAME	NEW ELEMENT	DESCRIPTION
*nsht001	NTR_NO	*	A 9 digit field which is the unique identifier of the NTR.
nsht002	NTR_ITEM_DT	*	An 8 character date field to be completed in the MM/DD/YY format for the date the NTR was entered into the system.
nsht003	DT_NTR_RCV_N TUO	*	An 8 character date field to completed in the MM/DD/YY format for the date the NTR was received in the TUO.
nsht004	NTR_TITLE	*	2 lines of 66 characters each indicating the title of the NTR.
nsht005	NTR_DESC	*	3 lines of 66 characters each containing the description of the NTR.
nsht006	NTR_KEYS	*	2 lines of 66 characters each for keywords from the title and description of the NTR. The system will search this field on a keyword search.
nsht007	REL_2_CENTRAL	*	A single character field indicating whether the record should be released to the central database. The valid values are "Y" or "N".
nsht008	REL_2_IAC	*	A single character field indicating whether the record should be released to the IACs. The valid values are "Y" or "N".
nsht009	REL_2_CLIENT	*	A single character field indicating whether the record should be released to the clients. The valid values are "Y" or "N".
nsht010	NTR_ORIGIN	*	A single character field indicating the code of the NTR's origin.
nsht011	PUB_DECISION	*	A 16 character field indicating the decision to publish the NTR.
nsht012	PAT_STATUS	*	A 2 character field indicating the patent status of the NTR.

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SECTION 2 DATABASE ELEMENTS DESCRIPTIONS SHORT FORM (LOCAL)

RECORD/FIELD	LONG NAME	NEW ELEMENT	DESCRIPTION
nsht013	TB_PUB_DATE	*	An 8 character date field to be completed in the format MM/DD/YY for the date the Technical Brief was published.
nsht014	TB_PUB_VOL	*	A 3 character field indicating the volume of the Technical Brief.
nsht015	TB_PUB_NO	*	A 3 character field indicating the publication number of the Technical Brief.
nsht016	TB_PUB_PAGE	*	A 3 character field indicating the page number of the Technical Brief.
nsht017	DT_TO_CENTRAL	*	An 8 character date field to be completed in the MM/DD/YY format for the date the record was released to the central database.
nsht018	PREPARER_ID	*	A 3 character field indicating the initials of the preparer's name.
nsht019	INNOVATOR_CODE_1	*	A 6 character field indicating the innovator code for the first innovator.
nsht020	INNOVATOR_CODE_2	*	A 6 character field indicating the innovator code for the second innovator.
nsht021	INNOVATOR_CODE_3	*	A 6 character field indicating the innovator code for the third innovator.
nsht022	INNOVATOR_CODE_4	*	A 6 character field indicating the innovator code for the fourth innovator.
nsht023	INNOVATOR_CODE_5	*	A 6 character field indicating the innovator code for the fifth innovator.
nsht024	DT_REQ_2_HQ_1	*	An 8 character date field to be completed in the MM/DD/YY format for the first date the NTR is required to Headquarters.

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SECTION 2 DATABASE ELEMENTS DESCRIPTIONS SHORT FORM (LOCAL)

RECORD/FIELD	LONG NAME	NEW ELEMENT	DESCRIPTION
nsht025	DT_REQ_2_HQ_2	*	An 8 character date field to be completed in the MM/DD/YY format for the second date the NTR is required to Headquarters.
nsht026	DT_REQ_2_HQ_3	*	An 8 character date field to be completed in the MM/DD/YY format for the date NASA HQ requested the award.
nsht027	DT_REQ_2_HQ_4	*	An 8 character date field to be completed in the MM/DD/YY format for the date NASA HQ requested the award.
nsht028	DT_REQ_2_HQ_5	*	An 8 character date field to be completed in the MM/DD/YY format for the date NASA HQ requested the award.
nsht029	DT_CK_2_INNOV_1	*	An 8 character date field to be completed in MM/DD/YY format for the date the check was sent to the innovator.
nsht030	DT_CK_2_INNOV_2	*	An 8 character date field to be completed in MM/DD/YY format for the date the check was sent to the innovator.
nsht031	DT_CK_2_INNOV_3	*	An 8 character date field to be completed MM/DD/YY format for the date the check was sent to the innovator.
nsht032	DT_CK_2_INNOV_4	*	An 8 character date field to be completed the MM/DD/YY format for the date the check was sent to the innovator.
nsht033	DT_CK_2_INNOV_5	*	An 8 character date field to be completed the MM/DD/YY format for the date the check was sent to the innovator.
nsht034	CTR_NO_1	*	A 15 character field containing the official number assigned to contract or grant at time of award. This number is the key identifier of specific contract or grant.

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SECTION 2 DATABASE ELEMENTS DESCRIPTIONS SHORT FORM (LOCAL)

RECORD/FIELD	LONG NAME	NEW ELEMENT	DESCRIPTION
nsht035	CTR_NO_2	*	A 15 character field containing official number assigned to the contract or grant at time of award. This number is the key identifier of specific contract or grant.
nsht036	CTR_NO_3	*	A 15 character field containing official number assigned to the contract or grant at time of award. This number is the key identifier of specific contract or grant.
nsht037	CTR_NO_4	*	A 15 character field containing official number assigned to the contract or grant at time of award. This number is the key identifier of the specific contract or grant.
nsht038	CTR_SUFY_1	*	A single character field containing an identifying suffix assigned to each contract number.
nsht039	CTR_SUFY_2	*	A single character field containing an identifying suffix assigned to each contract number.
nsht040	CTR_SUFY_3	*	A single character field containing an identifying suffix assigned to each contract number.
nsht041	CTR_SUFY_4	*	A single character field containing an identifying suffix assigned to each contract number.
nsht042	VER_CONT_NO	*	A 1 character field. When the user enters a "Y" in this field, system will verify this number against each contract number in the record to ensure this contract is in the contract database. If the contract number cannot be found, a message will appear on the screen to inform the

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SECTION 2 DATABASE ELEMENTS DESCRIPTIONS SHORT FORM (LOCAL)

RECORD/FIELD	LONG NAME	NEW ELEMENT	DESCRIPTION
			user. The system will position the user at that point in the record for reentry. If this field contains an "N" (or if the Origin field contains an "N"), the system will bypass the verification of the contract number and allow all contract numbers to be blank.
nsht043	DT_TO_EVAL	*	An 8 character date field to be completed in the MM/DD/YY format for the date the award was given to the evaluator.
nsht044	DT_FR_EVAL	*	An 8 character date field to be completed in the MM/DD/YY format for the date the evaluator returned the award evaluation.
nsht045	DT_FOR_INV_REV	*	An 8 character date field to be completed in the MM/DD/YY format for the date the award is sent to the innovator for review.
nsht046	DT_RTND_2_TUO	*	An 8 character date field to be completed in the MM/DD/YY format for the date the award is returned to the TUO.
nsht047	EVALUATOR	*	A single character field. Enter either an S for SRI or a C for COSMIC to indicate who evaluates the NTR.
nsht048	FIN_CLASS	*	A 4 character field for the rating given to the NTR for its innovative qualities and its applicability to industry. The TUO assigns this rating after the SRI classification is received. The rating scale is as follows: 1.0 (lowest)- 5.0 (highest).
nsht049	DT_PUB_REQ_TO_PO	*	An 8 character date field to be completed in the MM/DD/YY format for the date the TUO requested permission to publish the associated NTR from the patent office.

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SECTION 2 DATABASE ELEMENTS DESCRIPTIONS SHORT FORM (LOCAL)

RECORD/FIELD	LONG NAME	NEW ELEMENT	DESCRIPTION
nsht050	DT_PUB_REQ_CONT	*	An 8 character date field to be completed in the MM/DD/YY format for the date the publication request from the TUO was sent to the contractor.
nsht051	DT_NTR_TO_TB_TW	*	An 8 character date field to be completed in the MM/DD/YY format for the date the NTR was given to the technical writer for preparation of the draft publication version of the Tech Brief.
nsht052	DT_DFT_TB_TO_INV	*	An 8 character date field to be completed in the MM/DD/YY format for the date the draft initial Tech Brief was given to the Innovator for review.
nsht053	DT_FIN_TB_TO_LTS	*	An 8 character date field to be completed in the MM/DD/YY format for the date the final draft Tech Brief was sent to LTS for review.
nsht054	DT_CAM_CPY_2_PUB	*	An 8 character date field to be completed in the MM/DD/YY format for the date the camera ready copy of the final Tech Brief is sent to the publisher.
nsht055	DT_TSP_DFT_START	*	An 8 character date field to be completed in the MM/DD/YY format for the start date of the Technical Support Package.
nsht056	DT_TSP_AVL_4_DIS	*	An 8 character date field to be completed in the MM/DD/YY format for the date the Technical Support Package is available.
nsht057	DELETE_FLAG	*	A single character field transparent to the user indicating the record is marked for deletion.

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SECTION 2 DATABASE ELEMENTS DESCRIPTIONS SHORT FORM (LOCAL)

RECORD/FIELD	LONG NAME	NEW ELEMENT	DESCRIPTION
nsht058	ARC_FLAG	*	A single character field transparent to the user indicating the record is marked for archival.
nsht059	MORE_INNOV	*	A single character field indicating additional innovators on this NTR record. Valid values are "Y" or "N".

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DATABASE ELEMENTS DESCRIPTIONS

NTR FORMS (LOCAL)

RECORD/FIELD	LONG NAME	NEW ELEMENT	DESCRIPTION
*ntrs001	NTR_NO		A 9 character field for the NTR number, the unique identifier of the NTR record.
ntrs003	NTRS_ARCHIVE		A single character field transparent to the user indicating that the record is marked for archival.
ntrs004	NTRS_DELETE		A single character field transparent to the user indicating that a record is marked for deletion.
ntrs018	ABS_INNOV		17 lines of 66 characters each summarizing the new technology innovation item.
ntrs019	PROG_SIG		A required field which describes the significance of new technology items to the NASA Technology Utilization (TU) Program.
ntrs020	TECH_SIG		Describes the new technology items and their technical significance to science. Enter numeric characters as follows: 1.0=known to exist 2.0=modest advance 3.0=substantial advance 4.0=major improvement 5.0=pioneering discovery.
ntrs021	DEV_STATE		Describes the state of development when the new technology is reported. Enter numeric characters using the following: 1=Concept only 2=Design 3=Prototype 4=Modification 5=Production Model 6=Used in Current Work

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SECTION 2 DATABASE ELEMENTS DESCRIPTIONS NTR FORMS (LOCAL)

RECORD/FIELD	LONG NAME	NEW ELEMENT	DESCRIPTION
ntrs022	NOVELTY		17 lines of 66 characters each containing a synopsis of the NT items which make the NT unique or unusual.
ntrs023	PROBLEM		17 lines of 66 characters each containing a synopsis of the problem solved by the NT item.
ntrs024	SOLUTION		17 lines of 66 characters each containing the steps used to solve the stated problem.

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SECTION 2 DATABASE ELEMENTS DESCRIPTIONS NTR TRACKING (LOCAL)

RECORD/FIELD	LONG NAME	NEW ELEMENTS	DESCRIPTION
*ntrk001	NEW_TECH_RPT_NO		A required field of up to 9 characters. The NTR numbers are site-option or TUNS generated. This number becomes the unique identifier of the record.
ntrk003	NTRK_ARCHIVE		A single character field transparent to the user indicating that the record is marked for archival.
ntrk004	NTRK_DELETE		A single character field transparent to the user indicating that the record is marked for deletion.
ntrk009a	PREP_FNAME		A 10 character field to indicate the first name of the individual who tracks the NT item.
ntrk009b	PREP_MI		A single character field to indicate the middle initial of the individual who tracks the NT item.
ntrk009c	PREP_LNAME		A 20 character field to indicate the last name of the individual who tracks the NT item.
ntrk010	DT_NTR_RCV_N_TUO		An 8 character date field to be completed in the MM/DD/YY format to record the date the NTR is received by the TUO.
ntrk011	DT_INNOV_NOTIF		An 8 character date field to be completed in the MM/DD/YY format for the date the innovator is notified.
ntrk012	DT__PO_SENT_NTR4R		An 8 character date field to be completed in the MM/DD/YY format for the date the NTR is sent to the Patent Office for review.
ntrk013	DT_RSP_RCV_FM_PO		An 8 character date field to be completed in the MM/DD/YY format for the date the response is received from the Patent Office.

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SECTION 2 DATABASE ELEMENTS DESCRIPTIONS NTR TRACKING (LOCAL)

RECORD/FIELD	LONG NAME	NEW ELEMENTS	DESCRIPTION
ntrk014	DT_SENT_TO_SC		An 8 character date field to be completed in the MM/DD/YY format for the date the NTR is sent to SRI/Cosmic.
ntrk015	DT_RECV_FROM_SC		An 8 character date field to be completed in the MM/DD/YY format for the date the NTR is received from SRI/Cosmic.
ntrk016	SC_CLASS		A 4 character rating of the NTR's innovation and applicability to industry. The rating scale = 1.00 (lowest) to 4.00 (highest).
ntrk018	DT_SNTADD_INF2SC		An 8 character date field to be completed in the MM/DD/YY format for the date the NTR is sent to SRI/Cosmic.
ntrk019	DT_SC_REVAL_RECV		An 8 character date field to be completed in the MM/DD/YY format for the date the SRI/Cosmic re-evaluation is received.
ntrk020	SC_RECLASS		The reclassification code required when the TUO decides to have the NTR re-evaluated because of additional information. The rating scale = 1.00 (lowest) to 4.00 (highest).
ntrk021	DT_RMV_FRM_C_LIB		An 8 character date field to be completed in the MM/DD/YY format for the date the NTR is removed from the Cosmic library.
ntrk022	DT_TR_FROM_C		An 8 character date field to be completed in the MM/DD/YY format for the date the tech report is received from Cosmic.
ntrk023	DT_2N_4RSP4S_EVL		An 8 character date field to be completed in the MM/DD/YY format for the date the SRI evaluation is sent to the innovator for a response.

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SECTION 2 DATABASE ELEMENTS DESCRIPTIONS NTR TRACKING (LOCAL)

RECORD/FIELD	LONG NAME	NEW ELEMENTS	DESCRIPTION
ntrk024	DT_RP2SEVRCVBYTU		An 8 character date field to be completed in the MM/DD/YY format for the date the innovator's response to the SRI evaluation is received in the TUO.
ntrk025	DT_TUO_FNL_CLASS		An 8 character date field to be completed in the MM/DD/YY format for the date of the TUO's final classification.
ntrk027	DT_INV_NOT_TUODC		An 8 character date field to be completed in the MM/DD/YY format for the date the innovator is notified of the TUO's decision.
ntrk028	DT_TTA_NOTIF		An 8 character date field to be completed in the MM/DD/YY format for the date the technical transfer agent is notified.
ntrk029	RECON_NO		An 8 character field for the Recon number, the records unique identifier.
ntrk030	DT_DRFT_NTR_2_TW		An 8 character date field to be completed in the MM/DD/YY format for the date the draft NTR is sent to the technical writer.
ntrk031	DT_IN_DRFTB_FMTW		An 8 character date field to be completed in the MM/DD/YY format for the date the initial draft of the Technical Brief is received from the technical writer.
ntrk032	DT_INT_DFTB_2_IR		An 8 character date field to be completed in the MM/DD/YY format for the date the initial draft of the Technical Brief is sent to the innovator/reviewer.
ntrk033	DT_FROM_IR		An 8 character date field to be completed in the MM/DD/YY format for the date the initial draft of the Technical Brief is received from the innovator/reviewer.

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SECTION 2 DATABASE ELEMENTS DESCRIPTIONS NTR TRACKING (LOCAL)

RECORD/FIELD	LONG NAME	NEW ELEMENTS	DESCRIPTION
ntrk034	DT_CR_DRFTB_2_TW		An 8 character date field to be completed in the MM/DD/YY format for the date the corrected draft is sent to technical writer.
ntrk035	DT_FNLDTB_FM_TW		An 8 character date field to be completed in the MM/DD/YY format for the date the final draft is received from the technical writer.
ntrk036	DT_NTR_SNT_2_LTS		An 8 character date field to be completed in the MM/DD/YY format for the date the NTR is sent to LTS.
ntrk037	DT_DRF_PTB_FM_L		An 8 character date field to be completed in the MM/DD/YY format for the date the draft Published Technical Brief from LTS.
ntrk038	DT_DRF_PTB_TO_IR		An 8 character date field to be completed in the MM/DD/YY format for the date the draft Published Technical Brief to the innovator/reviewer.
ntrk039	DT_DRF_PTB_FM_IR		An 8 character date field to be completed in the MM/DD/YY format for the date the draft Published Technical Brief from the innovator/reviewer.
ntrk040	DT_DRF_PIB_BCK2L		An 8 character date field to be completed in the MM/DD/YY format for the date the draft Published Technical Brief is sent back to LTS.
ntrk041	DT_FNL_TB_FM_LTS		An 8 character date field to be completed in the MM/DD/YY format for the date the Final Technical Brief is received from LTS.
ntrk042	DT_FINL_TB_2_LTS		An 8 character date field to be completed in the MM/DD/YY format for the date the Final Technical Brief is sent to LTS.

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SECTION 2 DATABASE ELEMENTS DESCRIPTIONS NTR TRACKING (LOCAL)

RECORD/FIELD	LONG NAME	NEW ELEMENTS	DESCRIPTION
ntrk043	DT_PUB_REQ_TO_PO		An 8 character date field to be completed in the MM/DD/YY format for the date the publish request is sent to the Patent Office.
ntrk044	DT_PUB_REQ_FM_PO		An 8 character date field to be completed in the MM/DD/YY format for the date the publish request is received from the Patent Office.
ntrk045	PATOFF_PUB_DEC		A 15 character field which allows a short description such as "hold", "o.k.", or "No". This field records the decision made by the Patent Office to publish, not publish, or hold the publication of the NT item in the Tech Brief.
ntrk047	DT_PUB_REQ_CONT		An 8 character date field to be completed in the MM/DD/YY format for the date the publish request is sent to the contractor.
ntrk048	DT_PUB_DEC_CONT		An 8 character date field to be completed in the MM/DD/YY format for the date the publish decision is received from the contractor.
ntrk049	CONT_PUB_DEC		A 15 character field which contains the contractor's response to the TUO's request for permission to publish a Tech Brief on an NT item. This field is completed with one of the following responses: No Decision Do Not Publish NASA May Publish
ntrk050	PRCO_CL_INCL		A single character field used to indicate the PRCO Clause. Enter "Y" if PRCO Clause is included, or "N" if it is not included.

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DATABASE ELEMENTS DESCRIPTIONS

NTR TRACKING (LOCAL)

RECORD/FIELD	LONG NAME	NEW ELEMENTS	DESCRIPTION
ntrk051	CONT_ELT_RET		A single character field indicating whether the contractor elected to retain Patent Rights. Valid values are "Y" or "N".
ntrk052	PAT_RIT_WV_BY_NS		A single character field indicating whether the Patent Rights were waived by NASA. Valid Values are "Y" or "N".
ntrk053	PRSB_CL_INCL		A single character field indicating whether the PRSB clause is included. Valid values are "Y" or "N".
ntrk054a	LISC_FNAME		A 10 character field used to indicate the first name of the contractor patent license contact.
ntrk054b	LISC_MI		A single character field used to indicate the middle initial of the contractor patent license contact.
ntrk054c	LISC_LNAME		A 20 character field used to indicate the last name of the contractor patent license contact.
ntrk055a	LISC_ADS1		3 lines of 30 characters each for the address of the contractor patent license contact.
ntrk055b	LISC_ADS2		3 lines of 30 characters each for the address of the contractor patent license contact.
ntrk055c	LISC_ADS3		3 lines of 30 characters each for the address of the contractor patent license contact.
ntrk055d	LISC_CITY		A field of 25 characters for the city of the contractor patent license contact.
ntrk055e	LISC_ST		A 2 character field for the state abbreviation for the contractor patent license contact.

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SECTION 2 DATABASE ELEMENTS DESCRIPTIONS NTR TRACKING (LOCAL)

RECORD/FIELD	LONG NAME	NEW ELEMENTS	DESCRIPTION
ntrk055f	LISC_ZIP		A 5 character field for the zip code of the contractor patent license contact.
ntrk055g	LISC_ZIPS		A 4 character field for the zip code of the contractor patent license contact.
ntrk056a	LISC_PN_AC		A 3 character field for the area code of the contractor patent license contact.
ntrk056b	LISC_PN_NO		A 7 character field for the commercial phone number of the contractor patent license contact.
ntrk056c	LISC_PN_EXT		A 4 character field for the office extension of the contractor patent license contact.
ntrk057	DT_NTR_2TL4_TSP		An 8 character date field to be completed in the MM/DD/YY format for the date the NTR to technical writer/LTS for TSP.
ntrk058	DT_ID_TSP_FRM_TL		An 8 character date field to be completed in the MM/DD/YY format for the date the initial draft TSP is received from the technical writer/LTS.
ntrk059	DT_ID_TSP_2_IR		An 8 character date field to be completed in the MM/DD/YY format for the date the initial draft TSP is sent to the innovator/reviewer.
ntrk060	DT_TSP_FRM_INHRV		An 8 character date field to be completed in the MM/DD/YY format for the date the the TSP is received from the in-house reviewer.
ntrk061	DT_CR_D_TSP_2_TL		An 8 character date field to be completed in the MM/DD/YY format for the date the corrected draft TSP is sent to technical writer/LTS.

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SECTION 2 DATABASE ELEMENTS DESCRIPTIONS NTR TRACKING (LOCAL)

RECORD/FIELD	LONG NAME	NEW ELEMENTS	DESCRIPTION
ntrk062	DT_FNL_TSP_FM_TL		An 8 character date field to be completed in the MM/DD/YY format for the date the final TSP is received from the technical writer/LTS.
ntrk063	DT_FNL_TSP_2_STIF		An 8 character date field to be completed in the MM/DD/YY format for the date the final TSP is sent to STIF.
ntrk066	COMMENTS		Two lines of 66 characters each for the TUO to record comments on the publication of the NTR.
ntrk067	DT_TB_AWD_TO_HQ		An 8 character date field to be completed in the MM/DD/YY format for the date the Technical Brief Award nomination is sent to headquarters.
ntrk068	DT_TB_AWD_FRM_HQ		An 8 character date field to be completed in the MM/DD/YY format for the date the Technical Brief Award is received from headquarters.
ntrk069	AMT_TB_AWD		An 11 character field used to record the dollar amount of the Space Act Tech Brief Award.
ntrk070	DT_TB_PM		An 8 character date field to be completed in the MM/DD/YY format for the date the Technical Brief Award is presented/mailed.
ntrk071	DT_PAT_AWD_TO_HQ		An 8 character date field to be completed in the MM/DD/YY format for the date the Patent Award Nomination is sent to headquarters.
ntrk072	DT_PAT_AWD_FM_HQ		An 8 character date field to be completed in the MM/DD/YY format for the date the Patent Award is received from headquarters.

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SECTION 2 DATABASE ELEMENTS DESCRIPTIONS NTR TRACKING (LOCAL)

RECORD/FIELD	LONG NAME	NEW ELEMENTS	DESCRIPTION
ntrk073	AMT_PAT_AWD		An 11 character field used to record the dollar amount of the approved Space Act Patent Award.
ntrk074	DT_PAT_PM		An 8 character date field to be completed in the MM/DD/YY format for the date the Patent Award is presented/mailed.
ntrk075	OTH_AWD1_NAME		A 20 character field which lists the title or name of the first other award to be issued.
ntrk076	DT_OTH_AWD1_2_EV		An 8 character date field to be completed in the MM/DD/YY format for the date of the other AWD1 nomination to the evaluator.
ntrk077	DT_OF_OTH_EVALTN		An 8 character date field to be completed in the MM/DD/YY format for the date of the other AWD1 evaluation.
ntrk078a	OTHAWD1_EV_FNAME		A 10 character field for the first name of the other AWD1 evaluator.
ntrk078b	OTHAWD1_EV_M_INT		A single character field for the middle initial of the other AWD1 evaluator.
ntrk078c	OTHAWD1_EV_LNAME		A 20 character field for the last name of the other AWD1 evaluator.
ntrk079	OTH_AWD1_RECOM		A 20 character field containing the evaluator's recommendations for the first other award.
ntrk080	OTH_AWD1_AMT		An 11 character field used to record the dollar amount of other awards.
ntrk081	DT_OTH_AWD1_PM		An 8 character date field to be completed in the MM/DD/YY format for the date the other AWD1 is presented/mailed.

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SECTION 2 DATABASE ELEMENTS DESCRIPTIONS NTR EVALUATION (LOCAL)

RECORD/FIELD	LONG NAME	NEW ELEMENT	DESCRIPTION
eval009	EVAL_TYPE		A single character field describing the type of evaluation being done on the NTR. Valid values are 1 = Preliminary; 2 = Normal; 3= In-depth; 4 = Special.
eval010	REL_CENT_DB	*	A single character field indicating that the record should be released to the Central Database. Valid values are "Y" or "N".
eval011	DT_2_EVAL1		An 8 character date field to be completed in the MM/DD/YY format for the date the NTR is sent to the evaluator.
eval012	DT_DUE_EVAL1		An 8 character date field to be completed in the MM/DD/YY format for the date the NTR is due from the evaluator.
eval013	CAUSE_DELAY		A single line of 66 characters providing an explanation for the delay when a due date is not met.
eval014	DT_2_EVAL2		An 8 character date field to be completed in the MM/DD/YY format for the date the NTR is sent to evaluator 2.
eval015	DT_DUE_EVAL2		An 8 character date field to be completed in the MM/DD/YY format for the date the NTR is due from evaluator 2.
eval016	DT_EVAL_CMPL		An 8 character date field to be completed in the MM/DD/YY format for the date the SRI representative completed the NTR evaluation.
eval1017	EVAL_COMMENTS_2	*	6 lines of 66 characters each providing recommendations for potential applications for further action by NASA which would facilitate

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SECTION 2 DATABASE ELEMENTS DESCRIPTIONS NTR EVALUATION (LOCAL)

RECORD/FIELD	LONG NAME	NEW ELEMENT	DESCRIPTION
			the transfer of this technology to non-aerospace applications.
eval018	DELETE_FLG		A single character field transparent to the user indicating that a record has been marked for deletion.
eval019	ARCHIVE_FLG		A single character field transparent to the user indicating that a record has been marked for archival.
eval020a	EVAL2_F_NM		A 10 character field for the first name of the second evaluator if required.
eval020b	EVAL2_M_INT		A single character field for the middle initial of the second evaluator if required.
eval020c	EVAL2_L_NM		A 20 character field for the last name of the second evaluator if required.
eval021	EVAL_REPORT		17 lines of 66 characters each providing recommendations for potential applications for further action by NASA which would facilitate the transfer of this technology to non-aerospace applications.
eval022	EVAL_REPORT_2		17 lines of 66 characters each containing the explanation or rationale of the Recommended Classification Field.
eval023	RECLASS_NO		A 3 character field for the Reclassification Number if required.

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DATABASE ELEMENTS DESCRIPTIONS

NTR EVALUATION (LOCAL)

RECORD/FIELD	LONG NAME	NEW ELEMENT	DESCRIPTION
*eval001	SRI_NO		A 9 character field automatically generated by TUNS for a Stanford Research Institute (SRI) control number assigned to each New Technology Report (NTR).
eval002	NTR_NO		A 9 character field for the NTR number. The NTR Number begins with a three letter site reference.
eval003	NT_TITLE		3 lines of 66 characters each for the title of the NTR. When Keyword Search is performed on this field, it produces a list of all titles in the NTR database.
eval004	DT_RCV_4_EVAL		An 8 character date field to be completed in the MM/DD/YY format for the date the NTR is received for evaluation.
eval005	DT_RET_TUO		An 8 character date field to be completed in the MM/DD/YY format for the date the NTR is returned to the TUO.
eval006	RECOM_RATE		A 2 character field indicating the recommended classification given to the NTR by SRI or Cosmic during evaluation of the item.
eval007a	EVAL_F_NM		A 10 character field for the first name of the evaluator.
eval007b	EVAL_M_I		A single character field for the middle initial of the evaluator.
eval007c	EVAL_L_NM		A 20 character field for the last name of the evaluator.
eval008	EVAL_ORG_NM		A 60 character field for the evaluator's organization's name.

APPENDIX A

SECTION 2 DATABASE ELEMENTS DESCRIPTIONS NTR EVALUATION (LOCAL)

RECORD/FIELD	LONG NAME	NEW ELEMENT	DESCRIPTION
eval024	LITERAT_S_I		A single character field with valid values of "S" or "I" indicating that literature was searched and included as part of the evaluation. S = a comprehensive search of appropriate technical literature was made as a part of the evaluation. I = technical literature is included to support the evaluator's recommendation.
eval025	SITE_ID	*	A 3 character field used to identify the TUO originator in order to return the NTR Evaluation record to its source.

APPENDIX A

SECTION 2 DATABASE ELEMENTS DESCRIPTIONS TU PROJECTS (LOCAL)

RECORD/FIELD	LONG NAME	NEW ELEMENT	DESCRIPTION
proj001	REC_NO		A 9 character field automatically generated by TUNS. This number becomes the unique identifier of the record.
proj002	TOPIC_NO		A 15 character field that contains the topic or category under which the application project falls in the TU project database.
proj003	PROJ_TIT		A 60 character field that contains the official title of the application project.
proj004	PROJ_ABS		16 lines of 66 characters each for the technical abstract stating the nature of the project.
proj005	CENT_NAME		A 10 character field which names the center involved in the application project.
proj006a	TUO_F_NM		A 10 character field for first name of the Technology Utilization Officer at the identified site.
proj006b	TUO_M_INT		A single character field for the middle initial of the Technology Utilization Officer at the identified site.
proj006c	TUO_L_NM		A 20 character field for the last name of the Technology Utilization Officer at the identified site.
proj007a	TUO_PN_AC		A 3 character field for the area code of the TUO.
proj007b	TUO_PN_NO		A 7 character field for the commercial telephone number of the TUO.
proj007c	TUO_PN_EXT		A 4 character field for the extension of the Technology Utilization Officer.

APPENDIX A

SECTION 2 DATABASE ELEMENTS DESCRIPTIONS TU PROJECTS (LOCAL)

RECORD/FIELD	LONG NAME	NEW ELEMENT	DESCRIPTION
proj008	DT_PLAN1		An 8 character date field to be completed in the MM/DD/YY format for an estimated project milestone date.
proj009	DT_ACT1		An 8 character date field to be completed in the MM/DD/YY format for an actual project milestone date.
proj010	DT_PLAN2		An 8 character date field to be completed in the MM/DD/YY format for the planned date of the feasibility study.
proj011	DT_ACT2		An 8 character date field to be completed in the MM/DD/YY format for the actual date for the feasibility study.
proj012	DT_PLAN3		An 8 character date field to be completed in the MM/DD/YY format for the planned date of the contract award.
proj013	DT_ACT3		An 8 character date field to be completed in the MM/DD/YY format for the actual date of the contract award.
proj014	DT_PLAN4		An 8 character date field to be completed in the MM/DD/YY format for the planned date of the prototype development.
proj015	DT_ACT4		An 8 character date field to be completed in the MM/DD/YY format for the actual date of the prototype development.
proj016	DT_PLAN5		An 8 character date field to be completed in the MM/DD/YY format for the planned date of optimization (hardware/software).
proj017	DT_ACT5		An 8 character date field to be completed in the MM/DD/YY format for the actual date of optimization (hardware/software).

APPENDIX A

SECTION 2 DATABASE ELEMENTS DESCRIPTIONS TU PROJECTS (LOCAL)

RECORD/FIELD	LONG NAME	NEW ELEMENT	DESCRIPTION
proj018	DT_PLAN6		An 8 character date field to be completed in the MM/DD/YY format for the planned date of the field/lab. demo/implementation.
proj019	DT_ACT6		An 8 character date field to be completed in the MM/DD/YY format for the actual date of the field/lab. demo/implementation.
proj020	DT_PLAN7		An 8 character date field to be completed in the MM/DD/YY format for the planned date that the final report/handbook/spec was to be made available to the public.
proj021	DT_ACT7		An 8 character date field to be completed in the MM/DD/YY format for the actual date that the final report/handbook/spec was made available to the public.
proj022	DT_PLAN8		An 8 character date field to be completed in the MM/DD/YY format for the planned date that the product was to be made available to the public.
proj023	DT_ACT8		An 8 character date field to be completed in the MM/DD/YY format for the actual date that the product was released to the public.
proj024	DT_PLAN9		An 8 character date field to be completed in the MM/DD/YY format for the planned date for project completion.
proj025	DT_ACT9		An 8 character date field to be completed in the MM/DD/YY format for the actual date that the project was completed.
proj026	ACCOMPLISHMENTS		8 lines of 66 characters each. These accomplishment notes are used to inform the project manager of the project's status.

APPENDIX A

SECTION 2 DATABASE ELEMENTS DESCRIPTIONS TU PROJECTS (LOCAL)

RECORD/FIELD	LONG NAME	NEW ELEMENT	DESCRIPTION
proj027	FUND_STATUS		A single character field A = Application; C = CCDS (Center for the Commercialization of Space). This element describes the type of project.
proj028	TYPE_PROJ		A single character field indicating the code for the type of project.
proj029a	TECH_F_NM		A 10 character field for the first name of the technical person who works on the project.
proj029b	TECH_M_INT		A single character field for the middle initial of the technical person who works on the project.
proj029c	TECH_L_NM		A 20 character field for the last name of the technical person who works on the project.
proj030	RTOP_NO		A 9 character field for the NASA Research and Development Objectives and Plans Summary number. This number tracks NASA in-house R & D efforts.
proj031	STATUS_DAT		An 8 character date field to be completed in the MM/DD/YY format used to record the date on which status is assessed.
proj032	PROBLEMS		16 lines of 66 characters each to record synopsis of the problem which was solved by the NT item.
proj033	ACT_NQTR		16 lines of 66 characters each to record the planned activities for the next quarter.
proj034	NASA_REQ_CUM	*	A 12 character amount field for the cumulative amount of NASA funding requested.
proj035	NASA_FUND_CUM	*	A 12 character amount field for the cumulative amount of NASA funding provided by Form 506.

APPENDIX A

SECTION 2 DATABASE ELEMENTS DESCRIPTIONS TU PROJECTS (LOCAL)

RECORD/FIELD	LONG NAME	NEW ELEMENT	DESCRIPTION
proj036	NASA_COMM_CUM	*	A 12 character amount field for the cumulative amount of NASA committed funding.
proj037	NASA_OBLIG_CUM	*	A 12 character amount field for the cumulative amount of NASA obligated funding.
proj038	NASA_COSTED_CUM	*	A 12 character amount field for the cumulative amount of NASA costed funding.
proj039	TOT_OTHER	*	A 12 character amount field for the cumulative amount of other funding.
proj040	OTHER_SOURCE	*	Descriptive name for the source of other funding.
proj041	DATE_LAST_CHG	*	An 8 character date field to be completed in the MM/DD/YY format for the date the project record was last updated by the TUO.
proj042	DATE_CERT	*	An 8 character date field to be completed in the MM/DD/YY format for the date RTI certified the contents of the record.
proj043	DELETE_FLAT	*	A single character field transparent to that user indicating that a record has been marked for deletion.
proj044	DATE_2CENT	*	An 8 character date field to be completed in the MM/DD/YY format for the date the record is released to the central database.
proj045	REL_2CENT	*	A single character field indicating whether the record should be released to the central database.

APPENDIX A

SECTION 2

DATABASE ELEMENTS DESCRIPTIONS

SPACE BENEFITS (LOCAL)

RECORD/FIELD	LONG NAME	NEW ELEMENT	DESCRIPTION
*ben1001	REC_NO	*	A 9 character field which TUNS automatically generates as the unique record identifier.
ben1002	TITLE	*	3 lines of 66 characters each. STIF Center's title of the Benefits Information spinoff. This particular STIF center identifies and maintains the spinoff.
ben1003	SPINOFF_REF	*	A field of 40 characters for the publication chapter of the spinoff.
ben1004	CENTER	*	A field of 10 characters for the name of the NASA TUO center that is the primary source of information on this innovation.
ben1005	LOCAL_NO	*	A 21 character field indicating the local identification number for the IAC.
ben1006	TECH_TERMS	*	2 lines of 66 characters each used for technical keywords that will help to identify the appropriate spinoff.
ben1007	SUMMARY	*	6 lines of 66 characters each used to describe the space benefit.
ben1008	NATURE_OF_BEN	*	Single character field which identifies the nature of the space benefit.
ben1009	OTHER_BENIES	*	A single character field indicating whether the benefit resulted in a change in the number of employees. Valid values are "Y" and "N".
ben010	RED_CST	*	An 11 character field for the amount of the cost reduction the benefit provided.
ben1015	REDUC_COST	*	An 11 character field for the amount of the cost reduction the benefit provided.

APPENDIX A

SECTION 2 DATABASE ELEMENTS DESCRIPTIONS SPACE BENEFITS (LOCAL)

RECORD/FIELD	LONG NAME	NEW ELEMENT	DESCRIPTION
ben1019	RED_CST_PER	*	A 10 character field indicating the measurement standard for the cost reduction.
ben1017	INC_REVENUE	*	A single character field indicating whether the benefit increased revenue.
ben1018	INC_REV\$DOLLARS	*	An 11 character field indicating the amount of revenue generated by the benefit.
ben1020	INC_REV_PER	*	A 10 character field indicating the measurement standard for revenue increase.
ben1021	NOTES_PG3	*	6 lines of 66 characters each for notes regarding the benefit's financial information.
ben1022	PATENT_NO	*	A 16 character field indicating the patent number assigned to the benefit.
ben1023	PATENT_DATE	*	An 8 character date field to be completed in the MM/DD/YY format for the date the patent number was assigned.
ben1024	ORGANIZATION	*	A 66 character field identifying the organization responsible for developing the spinoff.
ben1025a	ORG_ADS1	*	3 lines of 30 characters each for the address of the company responsible for developing the spinoff.
ben1025b	ORG_ADS2	*	3 lines of 30 characters each for the address of the company responsible for developing the spinoff.
ben1025c	ORG_ADS3	*	3 lines of 30 characters each for the address of the company responsible for developing the spinoff.

APPENDIX A

SECTION 2 DATABASE ELEMENTS DESCRIPTIONS SPACE BENEFITS (LOCAL)

RECORD/FIELD	LONG NAME	NEW ELEMENT	DESCRIPTION
ben1025d	ORG_CITY	*	A field of 25 characters for the city of the company responsible for developing the spinoff.
ben1025e	ORG_ST	*	A 2 character field for the state abbreviation of the company responsible for developing the spinoff.
ben1025f	ORG_ZIP	*	5 character field for the zip code of the company responsible for developing the spinoff.
ben1025g	ORG_ZIPS	*	4 character field for the zip code of the company responsible for developing the spinoff.
ben1026a	CONTACT_FNAME	*	A field of 10 characters for the first name of the innovator. Name could also refer to the person responsible for getting the innovation from the company developing the spinoff.
ben1026b	CONTACT_MI	*	A one character field for the middle initial of the innovator.
ben1026c	CONTACT_LNAME	*	A field of 20 characters for the last name of the innovator.
ben1026d	CONTACT_PN_AC	*	A 3 character field for the area code of the innovator.
ben1026e	CONTACT_PN_NO	*	A 7 character field for the commercial phone number of the innovator.
ben1026f	CONTACT_PN_EXT	*	A 4 character field for the office extension of the innovator.
ben1027	NASA_SOURCE	*	6 lines of 66 characters each indicating the NASA bibliographic sources that relate to the benefit.
ben1028	TYPE_OF_USER	*	A single character field indicating the code of the benefit's users.

APPENDIX A

SECTION 2

DATABASE ELEMENTS DESCRIPTIONS

SPACE BENEFITS (LOCAL)

RECORD/FIELD	LONG NAME	NEW ELEMENT	DESCRIPTION
ben1029	NOTES_USER	*	4 lines of 66 characters each for notes pertaining to the benefit's users.
ben1030	SMSA	*	A 30 character field indicating the Standard Metropolitan Statistical Area.
ben1031	EDA	*	A 30 character field indicating the Economic Development Area.
ben1032	COUNTY	*	A 30 character field indicating the the benefit's users' county.
ben1033	CONG_DISTRICT	*	A 30 character field indicating the benefit's users' Congressional District.
ben1034	NOTES_LOC	*	6 lines of 66 characters each for notes regarding the benefit's users' location.
ben1035	TOTAL_VALUE	*	An 11 character field indicating the amount of the total value of the benefit.
ben1036	TRANS_LIT_PG13	*	7 lines of 66 characters each for bibliographic sources that relate to the benefit.
ben1037	PROP_DATA	*	A single character field indicating whether the information contained in this record is proprietary or whether it should be released. Valid values are "Y" or "N".
ben1038	FRT_NASA_CONT	*	A single character field used to indicate the NASA contact code.
ben1039	NASA_REFERRAL	*	A single character field used to indicate the referral code.
ben1040	USE_NASA_AGAIN	*	A single character field indicating whether to use NASA again. Valid values are "Y" or "N".

APPENDIX A

SECTION 2 DATABASE ELEMENTS DESCRIPTIONS SPACE BENEFITS (LOCAL)

RECORD/FIELD	LONG NAME	NEW ELEMENT	DESCRIPTION
ben1041	TRANSFER_NOTES	*	9 lines of 66 characters each for notes pertaining to the transfer process.
ben1042	USER_ST	*	A 2 character field indicating the postal abbreviation of the user's state.
ben1043	USER_ZIP	*	A 5 character field indicating the postal zip code of the user.
ben1044	USER_ZIPS	*	A 4 character field indicating the postal zip code of the user.
ben1045	USER_CITY	*	A 25 character field indicating the user's city.
ben1046	TOT_INV_N_BEN	*	An 11 character field indicating the amount of the total investment in the benefit.
ben1047	TOT_INV_N_EQUIP	*	An 11 character field indicating the amount of the total investment in equipment.
ben1048	TOT_INV_N_MAT	*	An 11 character field indicating the amount of the total investment in materials.
ben1049	TOT_INV_N_PER	*	An 11 character field indicating the amount of the total investment in personnel.
ben1050	TOT_INV_N_OTH	*	An 11 character field indicating the amount of the total investment in other.
ben1051	ARC_FLG	*	A single character field transparent to the user indicating that the record is marked for archival.
ben1052	DEL_FLG	*	A single character field transparent to the user indicating that a record is marked for deletion.

APPENDIX A

SECTION 2 DATABASE ELEMENTS DESCRIPTIONS SPACE BENEFITS (LOCAL)

RECORD/FIELD	LONG NAME	NEW ELEMENT	DESCRIPTION
ben1053	OTHER_BENI	*	A single character field indicating the type of additional benefit: Valid Values include the following: 1 Change in Number of Employees 2 Improved Productivity/Planning 3 Improved Decision-Making/Problem Solving 4 Increased Sales 5 Increased Awareness of Technology 6 Confirmed Internal Findings 7 Public Relations/Marketing Value 8 Helped Meet Regulatory Requirements 9 Improved Safety
ben1054	OTHER_BENI_DOLLARS		An 11 character field indicating the dollar amount of other benefits.
ben1055	OTHER_BENI_PER	*	A 10 character field indicating the percentage of other benefits.
ben056	NUM_EMPLOYEES	*	A single character field indicating the size of the organization identified as a user of the NASA technology. Valid values include the following: A 1-24 B 25-49 C 50-99 D 100-249 E 250-499 F 500-999 G 1,000-2,499 H 2,500-4,999 I 5,000+
ben1057	USER_SPEC_REGION	*	A 30 character field indicating the benefit's users' other special region.
ben1058	RELEASE_2_CENT	*	A single character field indicating release of space benefit information to the central database.

APPENDIX A

SECTION 2 DATABASE ELEMENTS DESCRIPTIONS SPACE BENEFITS (LOCAL)

RECORD/FIELD	LONG NAME	NEW ELEMENT	DESCRIPTION
ben1059	DATE_2_CENT	*	An 8 character date field to be completed in the MM/DD/YY format for the date the space benefit is released to the central database.
ben1060	NOTES_PG4	*	6 lines of 66 characters for notes on the company investment.
ben1061	NOTES_PG5	*	4 lines of 66 characters for notes for the first NASA contract.
ben1062	BEN_SOURCE	*	6 lines of 66 characters for notes on the benefit report.
ben1063	ESTIMATE_BEN	*	An 11 character field indicating the dollar amount for the total estimate of the benefit.

APPENDIX A

Section 2 DATABASE ELEMENTS DESCRIPTIONS MORE INNOVATORS

RECORD/FIELD	LONG NAME	NEW ELEMENT	DESCRIPTION
*ext001	INNOVATOR_CODE	*	A 6 character field which is the unique identifier of the innovator record.
ext002	NTR_NUMBER	*	A 9 character field which is the unique identifier of the NTR.
ext003	DT_REQ_2_HQ	*	An 8 character date field to be completed in the MM/DD/YY format for the date the award request is required to headquarters.
ext004	DT_CHK_2_INNOV	*	An 8 character date field to be completed in the MM/DD/YY format for the date the check is sent to the innovator.

APPENDIX B

MENUS

APPENDIX B

MENUS

VER 2.0

TECHNOLOGY UTILIZATION NETWORK SYSTEM

DATE: 00/00/00

-
1. TU PROJECTS (CENTRAL)
 2. SPACE BENEFITS (CENTRAL)
 3. NTR SUMMARY (CENTRAL)
 4. NTR EVALUATION TRANSMISSION
 5. RETRIEVE TUO QUARTERLY STATISTICAL DATA
 6. UPLOAD TO CENTRAL DATABASE
 7. DOWNLOAD FROM CENTRAL DATABASE
 8. SYSTEM ADMINISTRATION
 9. LOGOFF

SELECTION:

F1-HLP F2-LOGOUT F3-PC/CNTR

APPENDIX B

MENUS

MENU:

TU PROJECTS (CENTRAL)

DATE: 00/00/00

1. QUERY TU PROJECTS RECORDS
2. BROWSE TU PROJECT RECORDS
3. KEYWORD SEARCH OF TITLES
4. KEYWORD SEARCH OF ABSTRACTS
5. GENERATE TU PROJECTS REPORTS
6. UPDATE TU PROJECTS RECORD
7. DELETE TU PROJECTS RECORD

SELECTION:

F1-HLP

F2-LOGOUT

F3-PC/CNTR

F4-PREVMU

F9-MAINMU

APPENDIX B

MENUS

MENU:

GENERATE TU PROJECTS REPORTS

DATE: 00/00/00

-
1. TU PROJECTS DETAILED REPORT
 2. TU PROJECTS STATUS REPORTS BY CENTER
 3. TU PROJECTS STATUS REPORT BY TOPIC
 4. TU PROJECTS FULL REPORT BY TOPIC
 5. CONSOLIDATED LIST OF TU PROJECTS BY CENTER
 6. FINANCIAL SUMMARY OF TU PROJECTS

SELECTION:

F1-HLP F2-LOGOUT F3-PC/CNTR F4-PREVMU F9-MAINMU

APPENDIX B

MENUS

MENU:

SPACE BENEFITS (CENTRAL)

DATE: 00/00/00

-
1. QUERY OF SPACE BENEFITS RECORDS
 2. BROWSE SPACE BENEFITS RECORDS
 3. SEARCH SPACE BENEFITS RECORDS
 4. GENERATE SPACE BENEFITS RECORDS
 5. UPDATE SPACE BENEFITS RECORDS
 6. DELETE SPACE BENEFITS RECORDS

"Maintain Space Benefits Records"
Database

SELECTION:

F1-HLP

F2-LOGOUT

F3-PC/CNTR

F4-PREVMU

F9-MAINMU

APPENDIX B

MENUS

MENU:

SPACE BENEFITS (CENTRAL)

DATE: 00/00/00

-
1. QUERY BY RANGES
 2. QUERY BY SPACE BENEFITS INFORMATION
 3. QUERY BY GEOGRAPHIC STATISTICS

SELECTION:

F1-HLP F2-LOGOUT F3-PC/CNTR F4-PREVMU F9-MAINMU

APPENDIX B

MENUS

MENU:

SPACE BENEFITS (CENTRAL)

DATE: 00/00/00

-
1. SEARCH SPACE BENEFITS BY TITLE
 2. SEARCH SPACE BENEFITS BY TECHNICAL TERMS
 3. SEARCH SPACE BENEFITS BY SUMMARY

SELECTION:

F1-HLP

F2-LOGOUT

F3-PC/CNTR

F4-PREVMU

F9-MAINMU

APPENDIX B

MENUS

MENU:

NTR/EVALUATION SUMMARY (CENTRAL)

DATE: 00/00/00

1. QUERY BY NTR NUMBER
2. BROWSE NTR/EVALUATION SUMMARY
3. SEARCH NTR/EVALUATION SUMMARY TEXT
4. PRINT NTR/EVALUATION SUMMARY DETAIL REPORT
5. UPDATE NTR/EVALUATION SUMMARY
6. DELETE NTR/EVALUATION SUMMARY RECORD

SELECTION:

F1-HLP

F2-LOGOUT

F3-PC/CNTR

F4-PREVMU

F9-MAINMU

APPENDIX B

MENUS

MENU: NTR/EVALUATION SUMMARY (CENTRAL) DATE: 00/00/00

1. SEARCH NTR SUMMARY BY ABSTRACT
2. SEARCH NTR SUMMARY BY EVALUATION
3. SEARCH NTR SUMMARY BY KEYWORDS
4. SEARCH NTR SUMMARY BY TITLE

SELECTION:

F1-HLP F2-LOGOUT F3-PC/CNTR F4-PREVMU F9-MAINMU

APPENDIX B

MENUS

MENU:

NTR/EVALUATION TRANSMISSION

DATE: 08/22/88

-
1. UPLOAD NTR EVALUATION RECORDS TO CENTRAL COMPUTER
 2. DOWNLOAD EVALUATION RECORDS FROM CENTRAL COMPUTER

SELECTION:

F1-HLP F2-LOGOUT F3-PC/CNTR F4-PREVMU F9-MAINMU

APPENDIX B

MENUS

MENU:

UPLOAD TO CENTRAL DATABASE

DATE: 00/00/00

-
1. TU PROJECT RECORDS
 2. SPACE BENEFIT RECORDS
 3. NTR/EVALUATION SUMMARY RECORDS

SELECTION:

F1-HLP	F2-LOGOUT	F3-PC/CNTR	F4-PREVMU	F9-MAINMU
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APPENDIX B

MENUS

MENU:

DOWNLOAD FROM CENTRAL DATABASE

DATE: 00/00/00

-
1. TU PROJECT RECORDS
 2. SPACE BENEFIT RECORDS
 3. NTR/EVALUATION SUMMARY RECORDS

SELECTION:

F1-HLP

F2-LOGOUT

F3-PC/CNTR

F4-PREVMU

F9-MAINMU

APPENDIX B

MENUS

MENU: 1(2)

WHO AND WHERE DIRECTORIES

DATE: 10/14/88

-
1. TU TEAM MEMBERS
 2. NASA ORGANIZATION DIRECTORY
 3. EXPERT REFERRAL (LOCAL)
 4. ONLINE DATABASE LISTING
 5. TU PROJECTS
 6. RTOP ACTIVITY

SELECTION:

F1-HLP	F2-LOGOUT	F3-PC/CNTR	F4-PREVMU	F9-MAINMU
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APPENDIX B

MENUS

MENU: 1(2)(3)

EXPERT REFERRAL (LOCAL)

DATE: 00/00/00

-
1. BROWSE BY MAJOR DISCIPLINE
 2. SEARCH OF MAJOR DISCIPLINE
 3. MAINTAIN EXPERT REFERRAL (LOCAL) RECORD
 4. PRINT EXPERT REFERRAL (LOCAL) DETAILED REPORT
 5. GENERATE MAILING LABELS
 6. MARK FOR ARCHIVE
 7. MARK FOR DELETE
 8. CREATE TRANSACTIONS FOR CENTRAL UPDATE

SELECTION:

F1-HLP	F2-LOGOUT	F3-PC/CNTR	F4-PREVMU	F9-MAINMU
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APPENDIX B

MENUS

MENU: 1(2)(5)

TU PROJECTS

DATE: 10/17/88

-
1. QUERY TU PROJECTS RECORDS
 2. KEYWORD SEARCH OF TITLES
 3. KEYWORD SEARCH OF ABSTRACTS
 4. GENERATE TU PROJECTS REPORTS
 5. MAINTAIN TU PROJECT RECORD
 6. MARK FOR DELETE
 7. CREATE TU PROJECTS (CENTRAL TRANSACTIONS)

SELECTION:

F1-HLP	F2-LOGOUT	F3-PC/CNTR	F4-PREVMU	F9-MAINMU
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APPENDIX B

MENUS

MENU: 1(2)(5)(4)

GENERATE TU PROJECTS REPORTS

DATE: 12/20/88

-
1. TU PROJECTS DETAILED REPORTS
 2. TU PROJECTS STATUS REPORT BY CENTER
 3. TU PROJECTS STATUS REPORT BY TOPIC
 4. TU PROJECTS FULL REPORT BY TOPIC
 5. CONSOLIDATED LIST OF TU PROJECTS BY CENTER
 6. TU PROJECTS FINANCIAL SUMMARY REPORT

SELECTION:

F1-HLP F2-LOGOUT F3-PC/CNTR F4-PREVMU F9-MAINMU

APPENDIX B

MENUS

MENU: 1(2)(2)

NASA ORGANIZATION DIRECTORY

DATE: 10/14/88

-
1. SEARCH OF ORGANIZATION NAME
 2. QUERY NASA ORGANIZATION DIRECTORY RECORDS
 3. PRINT NASA ORGANIZATION DIRECTORY DETAILED REPORT
 4. MAINTAIN NASA ORGANIZATION DIRECTORY RECORD
 5. MARK FOR DELETE

SELECTION:

F1-HLP

F2-LOGOUT

F3-PC/CNTR

F4-PREVMU

F9-MAINMU

APPENDIX B

MENUS

MENU: 2(1)(1) NEW TECHNOLOGY REPORTING (NTR) SHORT FORM DATE: 02/16/89

1. BROWSE BY NTR NUMBER
2. KEYWORD SEARCH OF TITLES
3. KEYWORD SEARCH OF DESCRIPTION
4. KEYWORD SEARCH OF KEYWORDS
5. KEYWORD SEARCH OF INNOVATORS
6. QUERY NTR SHORT FORM RECORDS
7. MAINTAIN NTR SHORT FORM
8. PRINT NTR SHORT FORM
9. TRANSMIT/RECEIVE NTR RECORDS
10. MARK FOR ARCHIVE
11. MARK FOR DELETE
12. UPLOAD NTR INFORMATION TO SUMMARY/EVALUATION CENTRAL DATABASE

SELECTION:

F1-HLP F2-LOGOUT F3-PC/CNTR F4-PREVMU F9-MAINMU

APPENDIX B

MENUS

MENU: 2(4)(3)

GENERATE NTR TRACKING REPORTS

DATE: 00/00/00

-
1. BACKLOG OF NTRS
 2. NEW TECHNOLOGY REPORT
 3. NTR TRACKING SUMMARY
 4. NTR BASIC DATA LIST
 5. LIST OF CONTRACTOR NEW TECHNOLOGY ITEMS
 6. LIST OF IN-HOUSE NEW TECHNOLOGY ITEMS
 7. LIST OF COSMIC NEW TECHNOLOGY PROGRAMS
 8. NTRS REPORTED BY CONTRACT NUMBER

SELECTION:

F1-HLP

F2-LOGOUT

F3-PC/CNTR

F4-PREVMU

F9-MAINMU

APPENDIX B

MENUS

MENU: 2(1)(2) NEW TECHNOLOGY REPORTING (NTR) EVALUATION FORM DATE: 00/00/00

1. BROWSE BY SRI NUMBER
2. KEYWORD SEARCH OF TITLES
3. KEYWORD SEARCH OF TEXT
4. MAINTAIN NTR EVALUATION FORM
5. PRINT NTR EVALUATION FORM
6. GENERATE STANDARD CORRESPONDENCE
7. GENERATE EVALUATION STATUS REPORTS
8. TRANSMIT NTR EVALUATION FORMS TO TUO
9. RETRIEVE NTR EVALUATION FORMS FROM SRI/COSMIC
10. MARK FOR ARCHIVE
11. MARK FOR DELETE

SELECTION:

F1-HLP F2-LOGOUT F3-PC/CNTR F4-PREVMU F9-MAINMU

APPENDIX B

MENUS

MENU: 2(1)

NTR ADDITIONAL INNOVATORS

DATE: 00/00/00

-
1. QUERY ADDITIONAL INNOVATORS
 2. MAINTAIN ADDITIONAL INNOVATORS RECORD
 3. PRINT ADDITIONAL INNOVATORS DETAILED REPORT
 4. MARK FOR DELETE

SELECTION:

F1-HLP

F2-LOGOUT

F3-PREVMU

F9-MAINMU

APPENDIX B

MENUS

MENU: 2(2)(9)

GENERATE CONTRACT/GRANT REPORTS

DATE: 00/00/00

-
1. CONTRACT/GRANT DETAILED REPORT
 2. CONTRACT CORRESPONDENCE REMINDER LIST (DETAILED)
 3. CONTRACT STATISTICS REPORT
 4. GRANT STATISTICS REPORT
 5. CONTRACT/GRANT POTENTIAL REPORTABLE ITEM DETAILED REPORT
 6. CONTRACTS ELIGIBLE FOR CERTIFICATION
 7. GRANTS ELIGIBLE FOR CERTIFICATION
 8. CONTRACT/GRANT POTENTIAL REPORTABLE ITEMS BY CONTRACT NUMBER

SELECTION:

F1-HLP

F2-LOGOUT

F3-PREVMU

F9-MAINMU

APPENDIX B

MENUS

MENU: 2(6)(3)

ORGANIZATION DATABASE

DATE: 00/00/00

-
1. BROWSE BY ORGANIZATION CODE
 2. QUERY ORGANIZATION RECORD
 3. PRINT ORGANIZATION DETAILED REPORT
 4. MAINTAIN ORGANIZATION RECORD
 5. MARK FOR DELETE

SELECTION:

F1-HLP

F2-LOGOUT

F3-PREVMU

F9-MAINMU

APPENDIX B

MENUS

MENU: 2(6)(4)

TECHNOLOGY TRANSFER AGENT DATABASE

DATE: 00/00/00

-
1. BROWSE BY ORGANIZATION CODE
 2. QUERY TECHNOLOGY TRANSFER AGENT RECORD
 3. PRINT TECHNOLOGY TRANSFER AGENT DETAILED REPORT
 4. MAINTAIN TECHNOLOGY TRANSFER AGENT RECORD
 5. MARK FOR DELETE

SELECTION:

F1-HLP

F2-LOGOUT

F3-PREVMU

F9-MAINMU

APPENDIX B

MENUS

MENU: M(4)

TU PROJECT MANAGEMENT (SITE)

DATE: 00/00/00

-
1. ACTIVE PROJECT MANAGEMENT
 2. TUO QUARTERLY MANAGEMENT REPORT
 3. IAC QUARTERLY MANAGEMENT REPORT
 4. GENERATE PROJECT UNIQUE REPORTS
 5. TRANSMIT QUARTERLY STATISTICAL DATA TO HQ

SELECTION:

F1-HLP	F2-LOGOUT	F3-PC/CNTR	F4-PREVMU	F9-MAINMU
--------	-----------	------------	-----------	-----------

APPENDIX B

MENUS

MENU: M(3)

IAC ADMINISTRATION AND MANAGEMENT

DATE: 00/00/00

-
1. BIBLIOGRAPHIC SEARCHING
 2. SORT-AID *SUPERSABRE*
 3. ACCESS NTR/EVALUATION SUMMARY (CENTRAL) DATABASE

SELECTION:

F1-HLP F2-LOGOUT F3-PC/CNTR F4-PREVMU F9-MAINMU

APPENDIX B

MENUS

MENU: 6(7)

OFFICE AUTOMATION TRAINING

DATE: 00/00/00

-
1. READ ME FIRST
 2. WORD PROCESSING
 3. SPREADSHEET
 4. COMMUNICATIONS
 5. DATABASE MANAGEMENT SYSTEM
 6. SIMPLE ENGINEERING GRAPHICS
 7. DESKTOP PUBLISHING

SELECTION:

F1-HLP

F2-LOGOUT

F3-PREVMU

F9-MAINMU

APPENDIX C
SCREENS

APPENDIX C

SCREENS

VIEW:

TU PROJECTS (CENTRAL)

DATE: 00/00/00

1 of 1 Records

1 of 7 Screens

RECORD NO: _____ RTOP NO: _____ DATE TO CENTRAL: **/**/**

STATUS (FY FUNDING OR P): _____

TOPIC/CATEGORY: _____

PROJECT TITLE: _____

CENTER NAME: _____

TECHNICAL CONTACT: _____

TUO NAME: _____

TUO PHONE: _____ EXT: _____

DATE LAST CHANGE: **/**/** DATE CERTIFIED: **/**/**

F1-HLP F2-LOGOUT F3-PC/CNTR F4-PREVMU F5-NEXTSC F6-NEXTSC F8-DONE

APPENDIX C

SCREENS

TU PROJECTS (CENTRAL)

DATE: 00/00/00
1 of 1 Records

VIEW:

2 of 7 Screens

RECORD NO:

PROJECT STATUS:

STATUS AS OF DATE

- STANDARD MILESTONES (APPLICATIONS)
1. APPROVED PROJECT START DATE
 2. FEASIBILITY STUDY
 3. CONTRACT AWARD
 4. PROTOTYPE DEVELOPMENT
 5. OPTIMIZATION (HARDWARE/SOFTWARE)
 6. FIELD/LAB. DEMO/IMPLEMENTATION
 7. FINAL REPORT/HANDBOOK/SPEC.
 8. COMMERCIALIZATION
 9. PROJECT COMPLETION DATE

<u>COMPLETION DATE</u>	
<u>PLANNED</u>	<u>ACTUAL</u>
//**	**/**/**
//**	**/**/**
//**	**/**/**
//**	**/**/**
//**	**/**/**
//**	**/**/**
//**	**/**/**
//**	**/**/**
//**	**/**/**

F1-HLP F2-LOGOUT F3-PC/CNTR F4-PREVMU F5-PREVSC F6-NEXTSC F8-DONE

APPENDIX C

SCREENS

VIEW:

TU PROJECTS (CENTRAL)

DATE: 00/00/00
1 of 1 Records

3 of 7 Screens

RECORD NO:
PROJECT ABSTRACT:

F1-HLP F2-LOGOUT F3-PC/CNTR F4-PREVMU F5-PREVSC F6-NEXTSC F8-DONE

APPENDIX C

SCREENS

TU PROJECTS (CENTRAL)

DATE: 00/00/00
1 of 1 Records

VIEW:

4 of 7 Screens

RECORD NO:
ACCOMPLISHMENTS CURRENT QUARTER:

F1-HLP F2-LOGOUT F3-PC/CNTR F4-PREVMU F5-PREVSC F6-NEXTSC F8-DONE

APPENDIX C

SCREENS

VIEW:

TU PROJECTS (CENTRAL)

DATE: 00/00/00
1 of 1 Records

5 of 7 Screens

RECORD NO:
PROBLEMS:

F1-HLP F2-LOGOUT F3-PC/CNTR F4-PREVMU F5-PREVSC F6-NEXTSC F8-DONE

APPENDIX C

SCREENS

TU PROJECTS (CENTRAL)

DATE: 00/00/00
1 of 1 Records

VIEW:

6 of 7 Screens

RECORD NO:
PLANNED ACTIVITIES NEXT QUARTER:

1-HLP F2-LOGOUT F3-PC/CNTR F4-PREVMU F5-PREVSC F6-NEXTSC F8-DONE

APPENDIX C

SCREENS

VIEW:

TU PROJECTS (CENTRAL)

DATE: 00/00/00

1 of 1 Records

7 of 7 Screens

RECORD NO:

NASA CUMULATIVE:

REQUESTED: \$ _____

OBLIGATED: \$ _____

FUNDING (506): \$ _____

COSTED: \$ _____

COMMITTED: \$ _____

OTHER SOURCES:

TOTAL OTHER: \$ _____

F1-HLP F2-LOGOUT F3-PC/CNTR F4-PREVMU F5-PREVSC F6-NEXTSC F8-DONE

APPENDIX C

SCREENS

QUERY: DATA CRITERIA

TU PROJECTS (CENTRAL)

DATE: 00/00/00

PLEASE ENTER THE VALUES FOR THE FIELDS TO BE USED IN THE QUERY.

CENTER NAME: _____

TOPIC: _____

STATUS: _____

F1-HLP F2-LOGOUT F3-PC/CNTR F4-PREVMU F9-MAINMU F10-EXEC

APPENDIX C

SCREENS

KEYWORD SEARCH: DATA SELECTION CRITERIA

TU PROJECTS (CENTRAL)

DATE: 00/00/00

PLEASE ENTER THE KEYWORDS TO BE USED IN THE SEARCH. THE SEARCH IS LIMITED TO 4 WORDS. SELECT ONE OF THE OPTIONS LISTED BELOW FOR THE SEARCH CRITERIA. PRESS F1-HELP FOR ASSISTANCE.

KEYWORD SEARCH:

A _____
B _____
C _____
D _____

SEARCH CRITERIA:

1. A AND B AND C AND D
2. A OR B OR C OR D
3. [A AND B] OR [C AND D]
4. [A OR B] AND [C OR D]
5. [A OR B OR C] AND D
6. [A AND B AND C] OR D

SELECT OPTION: _____

F1-HLP F2-LOGOUT F3-PC/CNTR F4-PREVMU F9-MAINMU F10-EXEC

APPENDIX C

SCREENS

TU PROJECTS (CENTRAL)
PRINT: TU PROJECT DETAIL REPORT

DATE: 00/00/00

PLEASE ENTER THE RECORD NUMBER OF THE DESIRED TU PROJECT.

CENTER NAME: _____

RECORD NO: _____

F1-HLP F2-LOGOUT F3-PC/CNTR F4-PREVMU

F9-MAINMU

APPENDIX C

SCREENS

PRINT: FIELD ENTRY

TU PROJECTS (CENTRAL)

DATE: 02/10/89

PLEASE ENTER TOPIC/CATEGORY.

CENTER NAME: _____

TOPIC: _____

F1-HLP F2-LOGOUT F3-PC/CNTR F4-PREVMU

F9-MAINMU

APPENDIX C

SCREENS

PRINT: FIELD ENTRY

TU PROJECTS (CENTRAL)

DATE: 02/10/89

PLEASE ENTER CENTER NAME.

CENTER NAME: _____

F1-HLP F2-LOGOUT F3-PC/CNTR F4-PREVMU

F9-MAINMU

APPENDIX C

SCREENS

RECORD SELECTION	TU PROJECTS (CENTRAL)	DATE: 00/00/00 xxxx Records Found
		x of xxxx Screens
— PROJECT TITLE: TOPIC:	CENTER NAME:	KEY:
— PROJECT TITLE: TOPIC:	CENTER NAME:	KEY:
— PROJECT TITLE: TOPIC:	CENTER NAME:	KEY:
— PROJECT TITLE: TOPIC:	CENTER NAME:	KEY:
— PROJECT TITLE: TOPIC:	CENTER NAME:	KEY:
— PROJECT TITLE: TOPIC:	CENTER NAME:	KEY:

F1-HLP F2-EXIT F3-PC/CNTR F5-PREVSC F6-NEXTSC F8-UNSEL F9-SELREC F10-EXEC

APPENDIX C

SCREENS

TU PROJECTS (CENTRAL)

BROWSE:

DATE: 00/00/00

PLEASE ENTER APPLICATION PROJECT RECORD NUMBER.

CENTER NAME: _____

RECORD NO: _____

F1-HLP F2-LOGOUT F3-PC/CNTR F4-PREVMU F9-MAINMU F10-EXEC

APPENDIX C

SCREENS

MAINTAIN:

TU PROJECTS (CENTRAL)

DATE: 00/00/00

PLEASE ENTER THE VALUES FOR THE FIELDS BELOW.

CENTER NAME: _____

RECORD NO.: _____

F1-HLP F2-LOGOUT F3-PC/CNTR F4-PREVMU F9-MAINMU F10-EXEC

APPENDIX C

SCREENS

SPACE BENEFITS (CENTRAL) DATE: 00/00/00
QUERY: DATA CRITERIA

PLEASE ENTER VALUES FOR THE FIELDS TO BE QUERIED.

DATE:	From: **/**/**	To: **/**/**
ESTIMATED \$ VALUE OF BENEFIT:	From: _____	To: _____
ZIP:	From: _____	To: _____

F1-HLP F2-LOGOUT F3-PC/CNTR F4-PREVMU F9-MAINMU F10-EXEC

APPENDIX C

SCREENS

QUERY:

SPACE BENEFITS (CENTRAL)

DATE: 00/00/00

PLEASE ENTER VALUES FOR THE FIELDS TO BE QUERIED.

CENTER NAME: _____

TYPE OF BENEFIT: _____

TYPE OF USER: _____

STATE: _____

CITY: _____

F1-HLP F2-LOGOUT F3-PC/CNTR F4-PREVMU

F9-MAINMU

F10-EXEC

APPENDIX C

SCREENS

SPACE BENEFITS (CENTRAL)

DATE: 00/00/00

QUERY:

PLEASE ENTER VALUES FOR THE FIELDS TO BE QUERIED.

ARC: ☐ Y ☐ N

TVA: ☐ Y ☐ N

SMSA: _____

EDA: _____

COUNTY: _____

CONGR. DISTRICT: _____

F1-HLP F2-LOGOUT F3-PC/CNTR F4-PREVMU

F9-MAINMU

F10-EXEC

APPENDIX C

SCREENS

BROWSE:

SPACE BENEFITS (CENTRAL)

DATE: 00/00/00

PLEASE ENTER THE SPACE BENEFIT RECORD NUMBER.

CENTER NAME: _____

RECORD NO: _____

F1-HLP F2-LOGOUT F3-PC/CNTR F4-PREVMU

F9-MAINMU F10-EXEC

APPENDIX D

SCREENS

RECORD SELECTION		SPACE BENEFITS (CENTRAL)	DATE: 00/00/00 xxx Records Found
			x of xx Screens
—	REC NO: TITLE:	CENTER NAME:	EST TOTAL \$ BENEFIT
—	REC NO: TITLE:	CENTER NAME:	EST TOTAL \$ BENEFIT
—	REC NO: TITLE:	CENTER NAME:	EST TOTAL \$ BENEFIT
—	REC NO: TITLE:	CENTER NAME:	EST TOTAL \$ BENEFIT
—	REC NO: TITLE:	CENTER NAME:	EST TOTAL \$ BENEFIT
—	REC NO: TITLE:	CENTER NAME:	EST TOTAL \$ BENEFIT
F1-HLP F2-EXIT F3-PC/CNTR F5-PREVSC F6-NEXTSC F8-UNSEL F9-SELREC F10-EXEC			

APPENDIX C

SCREENS

PRINT: SPACE BENEFIT DETAIL REPORT

SPACE BENEFITS (CENTRAL)

DATE: 00/00/00

PLEASE ENTER CENTER NAME AND RECORD NUMBER.

CENTER NAME: _____

RECORD NO.: _____

F1-HLP F2-LOGOUT F3-PC/CNTR F4-PREVMU F9-MAINMU F10-EXEC

APPENDIX C

SCREENS

SPACE BENEFITS (CENTRAL)

MAINTAIN:

DATE: 00/00/00

PLEASE ENTER CENTER NAME AND RECORD NUMBER.

CENTER NAME: _____

RECORD NO.: _____

F1-HLP F2-LOGOUT F3-PC/CNTR F4-PREVMU F9-MAINMU F10-EXEC

APPENDIX C

SCREENS

MAINTAIN: UPDATE DATA ENTRY

SPACE BENEFITS (CENTRAL)

DATE 00/00/00
1 of 1 Records

1 of 11 Screens

RECORD NO: _____

TITLE: _____

DATE TO CENTRAL: **/**/**

SPINOFF REF: _____

CENTER: _____
TECHNICAL TERMS: _____

LOCAL NUMBER: _____

SUMMARY: _____

F1-HLP F2-LOGOUT F3-PC/CNTR F4-PREVMU F5-NEXTSC

F8-DONE

APPENDIX C

SCREENS

SPACE BENEFITS (CENTRAL)
MAINTAIN: UPDATE DATA ENTRY

DATE: 00/00/00
1 of 1 Records

2 of 11 Screens

RECORD NO:

TITLE:

NATURE OF BENEFIT: _____

- (A) NEW PRODUCT
- (B) NEW PROCESS
- (C) NEW MATERIAL

- (D) IMPROVED PRODUCT
- (E) IMPROVED PROCESS
- (F) IMPROVED MATERIAL

OTHER BENEFIT: _____

- (1) CHANGE IN NUMBER OF EMPLOYEES
- (2) IMPROVED PRODUCTIVITY/PLANNING
- (3) IMPROVED DECISION-MAKING/PROBLEM-SOLVING
- (4) INCREASED SALES
- (5) INCREASED AWARENESS OF TECHNOLOGY
- (6) CONFIRMED INTERNAL FINDINGS
- (7) PUBLIC RELATIONS/MARKETING VALUE
- (8) HELPED MEET REGULATORY REQUIREMENTS
- (9) IMPROVED SAFETY

F1-HLP F2-LOGOUT F3-PC/CNTR F4-PREVMU F5-NEXTSC

F8-DONE

APPENDIX C

SCREENS

MAINTAIN: UPDATE DATA ENTRY

SPACE BENEFITS (CENTRAL)

DATE: 00/00/00
1 of 1 Records

3 of 11 Screens

RECORD NO:

TITLE:

NATURE OF BENEFIT: _____

BENEFIT:

☐ REDUCED COST

\$ _____

PER _____

☐ INCREASED REVENUES

\$ _____

PER _____

☐ OTHER

\$ _____

PER _____

NOTES:

F1-HLP F2-LOGOUT F3-PC/CNTR F4-PREVMU F5-NEXTSC

F8-DONE

APPENDIX C

SCREENS

MAINTAIN: UPDATE DATA ENTRY

SPACE BENEFITS (CENTRAL)

DATE: 00/00/00
1 of 1 Records

3 of 11 Screens

RECORD NO:

TITLE:

OTHER BENEFIT:

__ REDUCED COST

__ INCREASED REVENUES

__ OTHER

\$ _____

\$ _____

\$ _____

PER _____

PER _____

PER _____

NOTES:

F1-HLP F2-LOGOUT F3-PC/CNTR F4-PREVMU F5-NEXTSC

F8-DONE

APPENDIX C

SCREENS

MAINTAIN: UPDATE DATA ENTRY SPACE BENEFITS (CENTRAL)

DATE: 00/00/00
1 of 1 Records

4 of 11 Screens

RECORD NO:

TITLE:

COMPANY INVESTMENT:

TOTAL ESTIMATE:	\$	0.00
EQUIPMENT:	\$	0.00
MATERIALS:	\$	0.00
PERSONNEL:	\$	0.00
OTHER:	\$	0.00

NOTES:

F1-HLP F2-LOGOUT F3-PC/CNTR F4-PREVMU F5-NEXTSC

F8-DONE

APPENDIX C

SCREENS

SPACE BENEFITS (CENTRAL)
MAINTAIN: UPDATE DATA ENTRY

DATE: 00/00/00
1 of 1 Records

5 of 11 Screens

RECORD NO:

TITLE:

FIRST NASA CONTRACT: _____

(A) NASA STAR SUBSCRIBER

(B) NASA TECH BRIEFS SUB

(C) DIRECT SALES

(D) CURRENT IAC CLIENT

REFERRAL: _____

(1) FLIC

(E) CURRENT/FORMER NASA EMPLOYEE ON STAFF

(F) MASS MARKETING

(G) COSMIC CATALOG SUBSCRIBER

(2) HQ/STIF (3) OTHER

NOTES:

F1-HLP F2-LOGOUT F3-PC/CNTR F4-PREVMU F5-NEXTSC

F8-DONE

APPENDIX C

SCREENS

MAINTAIN: UPDATE DATA ENTRY

SPACE BENEFITS (CENTRAL)

DATE: 00/00/00
1 of 1 Records

RECORD NO:
TITLE:

6 of 11 Screens

WOULD YOU USE NASA AGAIN? ☐ YES ☐ NO

TRANSFER NOTES:

F1-HLP F2-LOGOUT F3-PC/CNTR F4-PREVMU F5-NEXTSC

F8-DONE

APPENDIX C

SCREENS

MAINTAIN: UPDATE DATA ENTRY SPACE BENEFITS (CENTRAL)

DATE: 00/00/00
1 of 1 Records

7 of 11 Screens

RECORD NO:
TITLE:

PROPRIETARY DATA: _____

ORGANIZATION NAME:

ADDRESS: _____

CITY: _____ STATE: _____ ZIP: _____

CONTACT: _____

CONTACT PHONE: (____) _____ - _____ EXT: _____

BENEFIT REPORT SOURCE:

F1-HLP F2-LOGOUT F3-PC/CNTR F4-PREVMU F5-NEXTSC

F8-DONE

APPENDIX C

SCREENS

MAINTAIN: UPDATE DATA ENTRY

SPACE BENEFITS (CENTRAL)

DATE: 00/00/00

1 of 1 Records

8 of 11 Screens

RECORD NO:

TITLE:

TYPE OF USER:

(A) PRIVATE CITIZEN

(F) NON-PROFIT

(J) FEMALE-OWNED

(B) LOCAL GOVERNMENT

(G) FOREIGN/INTERN'TL

(K) SMALL BUSINESS

(C) STATE GOVERNMENT

(H) BUSINESS

(L) DISADVANTAGED

(D) U.S. FEDERAL GOVERNMENT

(I) MINORITY-OWNED

(M) SECTION 8(a)

(E) EDUCATIONAL

(H) might also be any 1 or more of I-M, or NONE.

NO. OF _____ (A) 1-24 (C) 50-99 (E) 250-499 (G) 1,000-2,499 (I) 5,000+
EMPLOYEES: (B) 25-49 (D) 100-249 (F) 500-999 (H) 2,500-4,999

also
C-32.

NOTES:

F1-HLP F2-LOGOUT F3-PC/CNTR F4-PREVMU F5-NEXTSC

F8-DONE

A-61

APPENDIX C

SCREENS

MAINTAIN: UPDATE DATA ENTRY SPACE BENEFITS (CENTRAL)

DATE: 00/00/00
1 of 1 Records

9 of 11 Screens

RECORD NO:

TITLE:

USER LOCATION:

STATE: _____ COUNTY: _____

CITY: _____

ZIP: _____

SMSA: _____

EDA: _____

U.S. CONGRESSIONAL DISTRICT: _____

OTHER SPECIAL REGION (ARC ETC.): _____

NOTES:

24,90. A-36.

F1-HLP F2-LOGOUT F3-PC/CNTR F4-PREVMU F5-NEXTSC

F8-DONE

APPENDIX C

SCREENS

MAINTAIN: UPDATE DATA ENTRY

SPACE BENEFITS (CENTRAL)

DATE: 00/00/00
1 of 1 Records

10 of 11 Screens

RECORD NO:

TITLE:

NASA SOURCES:

F1-HLP F2-LOGOUT F3-PC/CNTR F4-PREVMU F5-NEXTSC

F8-DONE

APPENDIX C

SCREENS

MAINTAIN: UPDATE DATA ENTRY SPACE BENEFITS (CENTRAL) DATE: 00/00/00
1 of 1 Records
11 of 11 Screens

RECORD NO:

TITLE:

ESTIMATED TOTAL VALUE OF BENEFIT: \$ 0.00

PATENT #: DATE: **/**/**

~~BENEFIT~~ ~~REMOVED:~~ ~~TRANSFER~~ LITERATURE & REFERENCES:

F1-HLP F2-LOGOUT F3-PC/CNTR F4-PREVMU F5-NEXTSC

F8-DONE

APPENDIX C

SCREENS

PRINT:

NTR/EVALUATION SUMMARY (CENTRAL

DATE: 00/00/00

PLEASE ENTER CENTER NAME AND RECORD NUMBER.

CENTER NAME: _____

RECORD NO: _____

F1-HLP F2-LOGOUT F3-PC/CNTR F4-PREVMU F9-MAINMU F10-EXEC

APPENDIX C

SCREENS

NTR/EVALUATION SUMMART (CENTRAL)

MAINTAIN:

DATE: 00/00/00

PLEASE ENTER CENTER NAME AND RECPRD NUMBER.

CENTER NAME: _____

RECORD NO.: _____

F1-HLP F2-LOGOUT F3-PC/CNTR F4-PREVMU F9-MAINMU F10-EXEC

APPENDIX C

SCREENS

VIEW: UPDATE DATA ENTRY

NTR/EVALUATION SUMMARY (CENTRAL)

DATE: 00/00/00
1 of 1 Records

1 of 5 Screens

NTR NO:
TITLE:

DATE NTR SUMM TO CENTRAL DB: **/**/**

BRIEF DESCRIPTION:

KEYWORDS:

ORIGIN: _____ PUBLISH DECISION: _____ PATENT STATUS: _____

TECH BRIEF: PUB DATE: **/**/**
VOL: _____ NO: _____ PAGE: _____

NTR DATE: **/**/** DATE RCVD IN TUO: **/**/**

F1-HELP F2-LOGOUT F3-PREVMU F4-PREVSC F5-NEXTSC

F8-DONE

APPENDIX C

SCREENS

NTR/EVALUATION SUMMARY (CENTRAL)
VIEW: UPDATE DATA ENTRY

DATE: 00/00/00
1 of 1 Records

2 of 5 Screens

NTR NO:

PREPARER: _____

DATE TO EVALUATOR: **/**/
DATE TO INNOV FOR REV: **/**/
EVALUATOR (SRI/COSMIC): **/**/
DATE PUB REQ TO PAT OFF: **/**/
DATE NTR TO TB TW: **/**/
DATE FINAL TB TO LTS: **/**/
TSP DRAFT START DATE: **/**/

DATE FROM EVALUATOR: **/**/
DATE RETURNED TUO: **/**/
FINAL CLASSIFICATION: **/**/
DATE PUB REQ TO CONT: **/**/
DATE DRAFT TB TO INN: **/**/
DATE CAMERA COPY TO PUB: **/**/
TSP AVAIL FOR DIST: **/**/

F1-HLP F2-LOGOUT F3-PC/CNTR F4-PREVMU F5-PREVSC F6-NEXTSC F8-DONE

APPENDIX C

SCREENS

VIEW: NTR EVALUATION SUMMARY (CENTRAL)

DATE: 00/00/00
1 of 1 Records

3 of 5 Screens

NTR NO:

ABSTRACT OF INNOVATION:

F1-HLP F2-LOGOUT F3-PC/CNTR F4-PREVMU F5-PREVSC F6-NEXTSC F8-DONE

APPENDIX C

SCREENS

VIEW: NTR/EVALUATION SUMMARY (CENTRAL) DATE: 00/00/00
1 of 1 Records

4 of 5 Screens

NTR NO:

EVALUATION REPORT:

F1-HLP F2-LOGOUT F3-PC/CNTR F4-PREVMU F5-PREVSC F6-NEXTSC F8-DONE

APPENDIX C

SCREENS

VIEW:

NTR/EVALUATION SUMMARY (CENTRAL)

DATE: 00/00/00
1 of 1 Records

5 of 5 Screens

NTR NO:

EVALUATION REPORT:

F1-HLP F2-LOGOUT F3-PC/CNTR F4-PREVMU F5-PREVSC F6-NEXTSC F8-DONE

APPENDIX C

SCREENS

RECORD SELECTION	NTR/EVALUATION SUMMARY (CENTRAL)	DATE: 00/00/00 xxxRecords Found
		x of xx Screens

—	NTR NO: TITLE:	CENTER NAME:	PATENT DECISION:
—	NTR NO: TITLE:	CENTER NAME:	PATENT DECISION:
—	NTR NO: TITLE:	CENTER NAME:	PATENT DECISION:
—	NTR NO: TITLE:	CENTER NAME:	PATENT DECISION:
—	NTR NO: TITLE:	CENTER NAME:	PATENT DECISION:
—	NTR NO: TITLE:	CENTER NAME:	PATENT DECISION:

F1-HLP F2-EXIT F3-PC/CNTR F5-PREVSC F6-NEXTSC F8-UNSEL F9-SELREC F10-EXEC

APPENDIX C

SCREENS

QUERY: DATA CRITERIA NTR/EVALUATION SUMMARY (CENTRAL) DATE: 00/00/00

PLEASE ENTER VALUES FOR THE FIELDS TO BE USED IN THE QUERY.
PLEASE LEAVE UNUSED FIELDS BLANK.

NTR NO: _____
TUO FINAL CLASSIFICATION: _____
PATENT DECISION: _____
CONTRACTOR DECISION: _____

CENTER: _____
DATE ENTERED SYSTEM: _____ FROM: **/**/** TO: **/**/**

SELECTION:

F1-HLP F2-LOGOUT F3-PC/CNTR F4-PREVMU F9-MAINMU F10-EXEC

APPENDIX C

SCREENS

BROWSE: FIELD ENTRY NTR/EVALUATION SUMMARY (CENTRAL)

DATE: 00/00/00

PLEASE ENTER THE NTR NUMBER OF THE DESIRED RECORD.

CENTER NAME: _____

NTR NUMBER: _____

F1-HLP F2-LOGOUT F3-PC/CNTR F4-PREVMU

F9-MAIN MU

F10-EXEC

APPENDIX C

SCREENS

NTR/EVALUATION SUMMARY (CENTRAL)
KEYWORD SEARCH: DATA SELECTION CRITERIA

DATE: 00/00/00

PLEASE ENTER THE KEYWORDS TO BE USED IN THE SEARCH. THE SEARCH IS LIMITED TO 4 WORDS. SELECT ONE OF THE OPTIONS LISTED BELOW FOR THE SEARCH CRITERIA. PRESS F1-HELP FOR ASSISTANCE.

KEYWORD SEARCH:

A _____
B _____
C _____
D _____

SEARCH CRITERIA:

1. A AND B AND C AND D
2. A OR B OR C OR D
3. [A AND B] OR [C AND D]
4. [A OR B] AND [C OR D]
5. [A OR B OR C] AND D
6. [A AND B AND C] OR D

SELECT OPTION: _____

F1-HLP F2-LOGOUT F3-PC/CNTR F4-PREVMU F9-MAINMU F10-EXEC

APPENDIX C

SCREENS

NEW TECHNOLOGY REPORTING (NTR) SHORT FORM
MAINTAIN: UPDATE ENTRY SCREEN

DATE: 12/20/88
1 of 1 Records

1 of 2 Screens

NTR NO: _____ NTR DATE: **/**/** DATE RCVD IN TUO: **/**/**
TITLE: _____

BRIEF DESCRIPTION: _____

KEYWORDS: _____

RELEASE TO: _____ CENTRAL DB: _____ IAC: _____ CLIENT: _____ ORIGIN: _____
PUBLISH DECISION _____ PATENT STATUS: _____
TECH BRIEF: PUB DATE: _____ VOL: _____ NO: _____
DATE NTR SUMM TO CENTRAL DB: **/**/** PAGE: _____

F1-HELP F2-LOGOUT F3-PREVMU F4-PREVSC F5-NEXT SC F8-DONE

APPENDIX C

SCREENS

NEW TECHNOLOGY REPORTING (NTR) SHORT FORM
 MAINTAIN: UPDATE ENTRY SCREEN

DATE: 12/20/88
 1 of 1 Records

2 of 2 Screens

NTR NO: PREPARER: _____

INNOVATORS

AWD REQ TO HQ

CK TO INNOV

//**
 //**
 //**
 //**
 //**

//**
 //**
 //**
 //**
 //**

MORE INNOV (Y OR N) _____

CONTRACT NO: _____

VERIFY: _____

DATE TO EVALUATOR: **/**/**
 DATE TO INNOV FOR REV: **/**/**
 EVALUATOR (SRI/COSMIC): _____
 DATE PUB REQ TO PAT OFF: **/**/**
 DATE NTR TO TB TW: **/**/**
 DATE FINAL TB TO LTS: **/**/**
 TSP DRAFT START DATE: **/**/**

DATE FROM EVALUATOR **/**/**
 DATE RETURNED TO TUO: **/**/**
 FINAL CLASSIFICATION: _____
 DATE PUB REQ TO CONTR: **/**/**
 DATE DRAFT TB TO INNOV: **/**/**
 DATE CAMERA COPY TO PUB: **/**/**
 TSP AVAIL FOR DIST: **/**/**

F1-HELP F2-LOGOUT F3-PREVMU F4-PREVSC F5-NEXTSC F8-DONE

APPENDIX C

SCREENS

NEW TECHNOLOGY REPORTING (NTR) SHORT FORM
RECORD SELECTION

DATE: 00/00/00
Records Found

1 of 1 Screen

—	NTR NO: TITLE:	CONTRACT NO:
—	NTR NO: TITLE:	CONTRACT NO:
—	NTR NO: TITLE:	CONTRACT NO:
—	NTR NO: TITLE:	CONTRACT NO:
—	NTR NO: TITLE:	CONTRACT NO:
—	NTR NO: TITLE:	CONTRACT NO:

F1-HELP F2-VIEW F3-PRINT F4-UPDATE FX-RELEASE FX-UPLOAD F7-RETURN

APPENDIX C

SCREENS

NEW TECHNOLOGY REPORTING (NTR) SHORT FORM
QUERY: DATA SELECTION CRITERIA

DATE: 00/00/00

NTR NO: _____
NTR DATE: **/**/**
DATE RECEIVED IN TUO: **/**/**
DATE NTR SUMMARY TO CENTRAL DATABASE: **/**/**
DATE TO EVALUATOR: **/**/**
DATE FROM EVALUATOR: **/**/**
FINAL CLASSIFICATION: _____

F1-HELP F2-LOGOUT F3-PREVMU

F9-MAINMU F10-EXEC

APPENDIX C

SCREENS

NEW TECHNOLOGY REPORTING (NTR) SHORT FORM
KEYWORD SEARCH: DATA SELECTION CRITERIA

DATE: 00/00/00

PLEASE ENTER THE KEYWORDS TO BE USED IN THE SEARCH. THE SEARCH IS LIMITED TO 100 WORDS. THE CHARACTERS INDICATED BELOW ARE USED TO DEFINE THE SEARCH CONDITION. PRESS F1 FOR HELP.

& SEARCH FOR BOTH WORDS CONNECTED BY &
[] SEARCH FOR EITHER WORD CONNECTED BY
* USED TO GROUP WORDS WHEN BOTH & AND
WILD CARD

(LOGICAL?)
OR
ARE USED
(OR)
LOGICAL OR
(space)

F1-HLP F2-LOGOUT F3-PREVMU

F9-MAINMU

ORIGINAL PAGE IS
OF POOR QUALITY

APPENDIX C

SCREENS

NEW TECHNOLOGY REPORTING (NTR) EVALUATION FORM
 RECORD SELECTION DATE: 00/00/00
 x Records Found

Screen

1 of 1

— SRI NO:	NTR NO:	DATE REC'V:	**/**/**
TITLE:			
— SRI NO:	NTR NO:	DATE REC'V:	**/**/**
TITLE:			
— SRI NO:	NTR NO:	DATE REC'V:	**/**/**
TITLE:			
— SRI NO:	NTR NO:	DATE REC'V:	**/**/**
TITLE:			
— SRI NO:	NTR NO:	DATE REC'V:	**/**/**
TITLE:			

F1-HELP F2-VIEW F3-PRINT F4-UPDATE FX-UPLOAD F7-RETURN

APPENDIX C

SCREENS

NEW TECHNOLOGY REPORTING (NTR) EVALUATION FORM
MAINTAIN: UPDATE ENTRY SCREEN

DATE: 00/00/00
x Records Found

1 of 4 Screens

SRI NO:

NTR NO: _____

TITLE:

DATE RECEIVED FOR EVALUATION: **/**/**
RECOMMEND CLASSIFICATION: _____
RELEASE TO CENTRAL DB (Y/N): _____
EVALUATION TYPE: _____

DATE RETURNED TO TUO: **/**/**
EVALUATION DATE: **/**/**
LITERATURE (S OR I): _____
RECLASSIFICATION NO: _____

EVALUATOR (1) NAME: _____
EVALUATOR (1) ORGANIZATION: _____

DATE TO EVAL (1): **/**/** DATE DUE FROM EVAL (1): **/**/**
CAUSE FOR DELAY: _____

F1-HELP F2-LOGOUT F3-PREVMU F4-PREVSC F5-NEXTSC

F8-DONE

APPENDIX C

SCREENS

NEW TECHNOLOGY REPORTING (NTR) EVALUATION FORM
MAINTAIN: UPDATE ENTRY SCREEN

DATE: 00/00/00
x Records Found

2 of 4 Screens

SRI NO:

NTR NO:

EVALUATOR (2) NAME:

DATE TO EVAL (1): **/**/**

DATE DUE FROM EVAL (1): **/**/**

EVALUATOR COMMENTS:

F1-HELP F2-LOGOUT F3-PREVMU F4-PREVSC F5-NEXTSC

F8-DONE

APPENDIX C

SCREENS

NEW TECHNOLOGY REPORTING (NTR) EVALUATION FORM DATE: 00/00/00
MAINTAIN: UPDATE ENTRY SCREEN AS OF DATE:00/00/00

3 of 4 Screens

EVALUATION REPORT:

F1-HELP F2-LOGOUT F3-PREVMU F4-PREVSC F5-NEXTSC F8-DONE

APPENDIX C

SCREENS

NEW TECHNOLOGY REPORTING (NTR) EVALUATION FORM
MAINTAIN: UPDATE ENTRY SCREEN

DATE: 00/00/00
AS OF DATE:00/00/00

4 of 4 Screens

EVALUATION REPORT:

F1-HELP F2-LOGOUT F3-PREVMU F4-PREVSC F5-NEXTSC F8-DONE

APPENDIX C

SCREENS

ADDITIONAL INNOVATORS

MAINTAIN:

DATE: 00/00/00

INNOVATOR CODE:

NTR NUMBER: _____

AWD REQ TO HQ: **/**/**

CK TO INNOV: **/**/**

F1-HELP F2-LOGOUT F3-PREVMU F4-PREVSC F5-NEXTSC F8-DONE

APPENDIX C

SCREENS

CONTRACT/GRANT NEW TECHNOLOGY ADMINISTRATION DATE: 00/00/00
 RECORD SELECTION xxx Records Found

			xx of xx Screens
—	CONTRACT NO: CPRI: _____	LETTER NO: _____	YR: _____ FOLLOWUP: _____
—	CONTRACT NO: CPRI: _____	LETTER NO: _____	YR: _____ FOLLOWUP: _____
—	CONTRACT NO: CPRI: _____	LETTER NO: _____	YR: _____ FOLLOWUP: _____
—	CONTRACT NO: CPRI: _____	LETTER NO: _____	YR: _____ FOLLOWUP: _____
—	CONTRACT NO: CPRI: _____	LETTER NO: _____	YR: _____ FOLLOWUP: _____
—	CONTRACT NO: CPRI: _____	LETTER NO: _____	YR: _____ FOLLOWUP: _____

F1-HELP F2-VIEW F3-PRINT F4-UPDATE FX-RELEASE FX-UPLOAD F7-RETURN

APPENDIX C

SCREENS

BROWSE: FIELD ENTRY TECHNOLOGY TRANSFER AGENT

DATE: 00/00/00

PLEASE ENTER THE ORGANIZATION CODE.

ORGANIZATION CODE: _____

F1-HELP F2-LOGOUT F3-PREVMU

F9-MAINMU

APPENDIX C

SCREENS

RECORD SELECTION

TECHNOLOGY TRANSFER AGENT

DATE: 00/00/00
xxx Records Found

xx of xx Screens

ORGANIZATION CODE: _____

TTA NAME: _ _ _

ORGANIZATION CODE: _____

TTA NAME: _ _ _

ORGANIZATION CODE: _____

TTA NAME: _ _ _

ORGANIZATION CODE: _____

TTA NAME: _ _ _

ORGANIZATION CODE: _____

TTA NAME: _ _ _

ORGANIZATION CODE: _____

TTA NAME: _ _ _

F1-HELP F2-VIEW F3-PRINT F4-UPDATE

F7-RETURN

APPENDIX C

SCREENS

QUERY: DATA CRITERIA TECHNOLOGY TRANSFER AGENT

DATE: 00/00/00

PLEASE ENTER THE VALUES FOR THE FIELDS TO BE USED IN THE QUERY.

PLEASE LEAVE UNUSED FIELDS BLANK.

TTA LAST NAME: _____

MAIL CODE: _____

ORGANIZATION CODE: _____

F1-HELP F2-LOGOUT F3-PREVMU

F9-MAINMU F10-EXEC

APPENDIX C

SCREENS

PRINT: KEYWORD ENTRY

TECHNOLOGY TRANSFER AGENT

DATE: 00/00/00

PLEASE ENTER THE ORGANIZATION CODE OF THE DESIRED RECORD

ORGANIZATION CODE: _____

F1-HELP F2-LOGOUT F3-PREVMU

F9-MAINMU

APPENDIX C

SCREENS

NASA ORGANIZATION DIRECTORY
SEARCH: RECORD SELECTION

DATE: 10/14/88
1968 Records Found

1 of 328 Screens

— SITE NAME:	TUO LAST NAME:
— TUO ORGANIZATION:	
— SITE NAME:	TUO LAST NAME:
— TUO ORGANIZATION:	
— SITE NAME:	TUO LAST NAME:
— TUO ORGANIZATION:	
— SITE NAME:	TUO LAST NAME:
— TUO ORGANIZATION:	
— SITE NAME:	TUO LAST NAME:
— TUO ORGANIZATION:	

F1-HELP F2-EXIT F5-PREVSC F6-NEXTSC F7-SELALL F8-UNSEL F9-SELREC F10-EXEC

APPENDIX C

SCREENS

VIEW: NASA ORGANIZATION DIRECTORY

DATE: 10/14/88
1 of 1 Records

1 of 1 Screens

RECORD NO: SITE NAME:

ORGANIZATION CODE: _____
ORGANIZATION NAME: _____

TUO CONTACT NAME: _____

TUO PHONE: (____) _____ - _____ EXT. _____

DATE OF LAST UPDATE: **/**/**

F1-HELP F2-LOGOUT F3-PREVMU

F8-DONE

APPENDIX C

SCREENS

MAINTAIN: UPDATE DATA ENTRY

SPACE BENEFITS

DATE 00/00/00
1 of 1 Records

1 of 11 Screens

RECORD NO: _____ TITLE: _____

RELEASE TO CENTRAL: **/**/**

DATE TO CENTRAL: **/**/**

SPINOFF REF:

CENTER: _____ LOCAL NUMBER: _____

TECHNICAL TERMS:

SUMMARY:

F1-HLP F2-LOGOUT F3-PC/CNTR F4-PREVMU F5-NEXTSC

F8-DONE

APPENDIX C

SCREENS

MAINTAIN: UPDATE DATA ENTRY

SPACE BENEFITS

DATE: 00/00/00
1 of 1 Records

2 of 11 Screens

RECORD NO:

TITLE:

NATURE OF BENEFIT: _____

(A) NEW PRODUCT

(D) IMPROVED PRODUCT

(B) NEW PROCESS

(E) IMPROVED PROCESS

(C) NEW MATERIAL

(F) IMPROVED MATERIAL

OTHER BENEFIT: _____

- (1) CHANGE IN NUMBER OF EMPLOYEES
- (2) IMPROVED PRODUCTIVITY/PLANNING
- (3) IMPROVED DECISION-MAKING/PROBLEM-SOLVING
- (4) INCREASED SALES
- (5) INCREASED AWARENESS OF TECHNOLOGY
- (6) CONFIRMED INTERNAL FINDINGS
- (7) PUBLIC RELATIONS/MARKETING VALUE
- (8) HELPED MEET REGULATORY REQUIREMENTS
- (9) IMPROVED SAFETY

F1-HLP F2-LOGOUT F3-PC/CNTR F4-PREVMU F5-NEXTSC

F8-DONE

APPENDIX C

SCREENS

MAINTAIN: UPDATE DATA ENTRY SPACE BENEFITS DATE: 00/00/00
1 of 1 Records
3 of 11 Screens

RECORD NO:

TITLE:

NATURE OF BENEFIT: _____

BENEFIT:

<input type="checkbox"/> REDUCED COST	\$ _____	PER _____
<input type="checkbox"/> INCREASED REVENUES	\$ _____	PER _____
<input type="checkbox"/> OTHER	\$ _____	PER _____

NOTES:

F1-HLP F2-LOGOUT F3-PC/CNTR F4-PREVMU F5-NEXTSC

F8-DONE

APPENDIX C

SCREENS

MAINTAIN: UPDATE DATA ENTRY

SPACE BENEFITS

DATE: 00/00/00
1 of 1 Records

3 of 11 Screens

RECORD NO:

TITLE:

OTHER BENEFIT:

___REDUCED COST

\$ _____

PER _____

___INCREASED REVENUES

\$ _____

PER _____

___OTHER

\$ _____

PER _____

NOTES:

F1-HLP F2-LOGOUT F3-PC/CNTR F4-PREVMU F5-NEXTSC

F8-DONE

APPENDIX C

SCREENS

MAINTAIN: UPDATE DATA ENTRY

SPACE BENEFITS

DATE: 00/00/00
1 of 1 Records

4 of 11 Screens

RECORD NO:

TITLE:

COMPANY INVESTMENT:

TOTAL ESTIMATE:

\$ 0.00

EQUIPMENT:

\$ 0.00

MATERIALS:

\$ 0.00

PERSONNEL:

\$ 0.00

OTHER:

\$ 0.00

NOTES:

F1-HLP F2-LOGOUT F3-PC/CNTR F4-PREVMU F5-NEXTSC

F8-DONE

APPENDIX C

SCREENS

MAINTAIN: UPDATE DATA ENTRY

SPACE BENEFITS

DATE: 00/00/00
1 of 1 Records

5 of 11 Screens

RECORD NO:

TITLE:

FIRST NASA CONTRACT: _____

(A) NASA STAR SUBSCRIBER

(B) NASA TECH BRIEF SUB

(C) DIRECT SALES

(D) CURRENT IAC CLIENT

(E) CURRENT/FORMER NASA EMPLOYEE ON STAFF

(F) MASS MARKETING

(G) COSMIC CATALOG SUBSCRIBER

REFERRAL: _____ (1) FLIC (2) HQ/STIF (3) OTHER

NOTES:

F1-HLP F2-LOGOUT F3-PC/CNTR F4-PREVMU F5-NEXTSC

F8-DONE

APPENDIX C

SCREENS

MAINTAIN: UPDATE DATA ENTRY

SPACE BENEFITS

DATE: 00/00/00
1 of 1 Records

6 of 11 Screens

RECORD NO:
TITLE:

WOULD YOU USE NASA AGAIN? ☐ YES ☐ NO

TRANSFER NOTES:

F1-HLP F2-LOGOUT F3-PC/CNTR F4-PREVMU F5-NEXTSC

F8-DONE

APPENDIX C

SCREENS

MAINTAIN: UPDATE DATA ENTRY

SPACE BENEFITS

DATE: 00/00/00
1 of 1 Records

7 of 11 Screens

RECORD NO:
TITLE:

PROPRIETARY DATA: _____

ORGANIZATION NAME:

ADDRESS:

CITY: _____ STATE: _____ ZIP: _____

CONTACT: _____
CONTACT PHONE: (____) _____ - _____ EXT: _____

BENEFIT REPORT SOURCE:

F1-HLP F2-LOGOUT F3-PC/CNTR F4-PREVMU F5-NEXTSC

F8-DONE

APPENDIX C

SCREENS

MAINTAIN: UPDATE DATA ENTRY

SPACE BENEFITS

DATE: 00/00/00
1 of 1 Records

8 of 11 Screens

RECORD NO:

TITLE:

TYPE OF USER: _____

(A) PRIVATE CITIZEN

(F) NON-PROFIT

(J) FEMALE-OWNED

(B) LOCAL GOVERNMENT

(G) FOREIGN/INTERN'TL

(K) SMALL BUSINESS

(C) STATE GOVERNMENT

(H) BUSINESS

(L) DISADVANTAGED

(D) U.S. FEDERAL GOVERNMENT

(I) MINORITY-OWNED

(M) SECTION 8(a)

(E) EDUCATIONAL

NO. OF _____ (A) 1-24 (C) 50-99 (E) 250-499 (G) 1,000-2,499 (I) 5,000+
EMPLOYEES: (B) 25-49 (D) 100-249 (F) 500-999 (H) 2,500-4,999

NOTES:

F1-HLP F2-LOGOUT F3-PC/CNTR F4-PREVMU F5-NEXTSC

F8-DONE

APPENDIX C

SCREENS

MAINTAIN: UPDATE DATA ENTRY

SPACE BENEFITS

DATE: 00/00/00
1 of 1 Records

9 of 11 Screens

RECORD NO:

TITLE:

USER LOCATION:

STATE: _____ COUNTY: _____

CITY: _____

ZIP: _____

SMSA: _____

EDA: _____

U.S. CONGRESSIONAL DISTRICT: _____

OTHER SPECIAL REGION (ARC ETC.): _____

NOTES:

F1-HLP F2-LOGOUT F3-PC/CNTR F4-PREVMU F5-NEXTSC

F8-DONE

APPENDIX C

SCREENS

MAINTAIN: UPDATE DATA ENTRY SPACE BENEFITS DATE: 00/00/00
1 of 1 Records

10 of 11 Screens

RECORD NO:

TITLE:

NASA SOURCES:

F1-HLP F2-LOGOUT F3-PC/CNTR F4-PREVMU F5-NEXTSC

F8-DONE

APPENDIX C

SCREENS

MAINTAIN: UPDATE DATA ENTRY

SPACE BENEFITS

DATE: 00/00/00
1 of 1 Records

11 of 11 Screens

RECORD NO:

TITLE:

ESTIMATED TOTAL VALUE OF BENEFIT: \$ 0.00

PATENT #: _____ DATE: **/**/**

TRANSFER LITERATURE:

F1-HLP F2-LOGOUT F3-PC/CNTR F4-PREVMU F5-NEXTSC

F8-DONE

APPENDIX D
REPORTS

**APPENDIX D
REPORTS**

**NATIONAL AERONAUTIC AND SPACE ADMINISTRATION
TECHNOLOGY UTILIZATION ACTIVITY REPORT**

SITE: 1 -----40 QUARTER: 1-3 FY: 12

A - NEW TECHNOLOGY REPORTING

	IN-HOUSE		CONTRACTOR			TOTAL	
	QTR	YTD	QTR	YTD	QTR	YTD	BKLG
1. ITEMS RECEIVED:	1---5	1---5	1---5	1---5	1---5	1---5	
2. ITEMS REJECTED:	1---5	1---5	1---5	1---5	1---5	1---5	
3. FORWARD FOR EVALUATION TO....							
a. CENTER:					1---5	1---5	1---5
b. CONTRACTOR:					1---5	1---5	1---5
c. COSMIC:					1---5	1---5	1---5
4. FORWARDED FOR TECH BRIEF PREPARATION:					1---5	1---5	
5. FORWARDED FOR COMPILATION PUBLICATION:					1---5	1---5	
6. TECH BRIEF CANDIDATE AWAITING TSP:							1---5
7. TSP's FORWARDED FOR PREPARATION:					1---5	1---5	1---5
8. TECHNICAL INQUIRIES FROM NASA IACs:					1---5	1---5	1---5
9. INQUIRIES FROM NASA APPLICATION TEAMS:					1---5	1---5	1---5
10. OTHER TECHNICAL INQUIRIES:					1---5	1---5	1---5

B - CONTRACT DATA

	TOTAL
1. NEW CONTRACTS WITH NT CLAUSE:	1---5
2. COMPLIANCES CERTIFIED:	1---5
3. R&D CONTRACTS WITH NT CLAUSE:	1---5
4. WITHHOLDING DATA:	1---5

APPENDIX D
REPORTS

NATIONAL AERONAUTIC AND SPACE ADMINISTRATION
TECHNOLOGY UTILIZATION ACTIVITY REPORT

SITE: 1 -----40 QUARTER: 1-3 FY: 12

C - NARRATIVE SUMMARY

- a. CENTER MANAGEMENT SUPPORT: For TU program; i.e., meetings, directives, resources, etc.
- b. FINANCIAL INFORMATION: Status of TU funds from Headquarters and from Center.
- c. CENTER TECHNICAL ACTIVITIES: Of interest to TU programs; i.e., transfers, applications, disseminations, etc.
- d. CONTRACTOR ACTIVITY: Problems in New Technology reporting, and efforts relating to the TU Program.
- e. NEW TECHNOLOGY REPORTING PLANS: Number and nature, and progress and/or problems in implementation.
- f. PUBLICATIONS ACTIVITY: Participation in surveys, special publications, etc.

APPENDIX D
REPORTS

NATIONAL AERONAUTIC AND SPACE ADMINISTRATION
TECHNOLOGY UTILIZATION ACTIVITY REPORT

SITE: 1 -----40 QUARTER: 1-3 FY: 12

- g. TECHNOLOGY TRANSFER AND BENEFIT CASES: Include source of technology and user.
- h. INDUSTRIAL APPLICATION: Participation and problems with these centers.
- i. APPLICATION TEAMS: Status of Problem Abstracts and participation and progress.
- j. EXHIBITS, FILMS, ARTIFACTS: Usefulness of items of this nature of the TU Program.
- k. SPEECHES, CONFERENCES, ETC., RELATED TO THE TU PROGRAM: Include date, location, organization size, speaker, subject.
- l. REMARKS: Including entries to this form and other matters.

**APPENDIX D
REPORTS**

DRAFT E-MAIL MEMO

TO: TUO who originated NTR
FROM: Stanford Research Institute SRI
DATE: (NASAMAIL Date & Time)
SUBJECT: Transmission of NTR Evaluation to Center Computer

NTR Evaluation record(s) have been transmitted to the Central Computer from Stanford Research Institute (SRI). The NTR Evaluation record(s) is complete and ready for your retrieval.

APPENDIX D
REPORTS

REPORT: _____ TUNS
PAGE: _____ SPACE BENEFITS (CENTRAL)
STATISTICAL SUMMARY DATE: **/**/**

SELECTION CRITERIA:

ESTIMATED TOTAL VALUE OF BENEFIT COUNT:

\$1 - \$99,999 _____
\$100,000 - \$999,999 _____
\$1,000,000 - over _____

NATURE OF BENEFIT:

NEW PRODUCT: _____	REDUCED COST: _____ INCREASED REVENUE: _____
IMPROVED PRODUCT: _____	REDUCED COST: _____ INCREASED REVENUE: _____
NEW PROCESS: _____	REDUCED COST: _____ INCREASED REVENUE: _____
IMPROVED PROCESS: _____	REDUCED COST: _____ INCREASED REVENUE: _____
NEW MATERIAL: _____	REDUCED COST: _____ INCREASED REVENUE: _____
IMPROVED MATERIAL: _____	REDUCED COST: _____ INCREASED REVENUE: _____
OTHER BENEFIT: _____	REDUCED COST: _____ INCREASED REVENUE: _____

TYPE OF USER:

PRIVATE CITIZEN: _____	FOREIGN/INTERNATIONAL: _____
LOCAL GOVERNMENT: _____	MINORITY OWNED: _____
STATE GOVERNMENT: _____	FEMALE OWNED: _____
NATIONAL GOVERNMENT: _____	SMALL BUSINESS: _____
EDUCATIONAL: _____	DISADVANTAGED: _____
NON PROFIT: _____	SECTION 8(a): _____
PRIVATE SECTOR BUSINESS: _____	

**APPENDIX D
REPORTS**

**NATIONAL AERONAUTIC AND SPACE ADMINISTRATION
IAC QUARTERLY MANAGEMENT REPORT**

REPORT: XXXX
PAGE: 1

DATE: **/**/**

CENTER CODE: (10)

CONTRACT NO: (15)

FY: (2)

STAFFING:	FTEs	NO. PERSONNEL
Professional:	(9)	(9)
Clerical:	(9)	(9)

BUDGET

CLIENT INCOME:		QUARTER	YTD	FY NN	FY NN
PROJECTED		\$000,000	\$000,000	\$000,000	\$000,000
ACTUAL					
	Retro. Search:	000,000	000,000	000,000	000,000
	Curr. Award Sch:	000,000	000,000	000,000	000,000
	IAC Pubs:	000,000	000,000	000,000	000,000
	Doc.:	000,000	000,000	000,000	000,000
	Photo:	000,000	000,000	000,000	000,000
	Project Work:	000,000	000,000	000,000	000,000
	Other	000,000	000,000	000,000	000,000
SUBTOTAL:		\$000,000	\$000,000	\$000,000	\$000,000
NASA SHARE (OBLIGATIONS):		000,000	000,000	000,000	000,000
COST SHARING:		000,000	000,000	000,000	000,000
TOTAL INCOME:		\$000,000	\$000,000	\$000,000	\$000,000
OPERATING COSTS					
	Accrued:	\$000,000	\$000,000	\$000,000	\$000,000
	Invoiced:	\$000,000	\$000,000	\$000,000	\$000,000

APPENDIX D
REPORTS

NATIONAL AERONAUTIC AND SPACE ADMINISTRATION
IAC QUARTERLY MANAGEMENT REPORT

REPORT: XXXX
PAGE: 2

DATE: **/**/**

CENTER CODE: (10)

CONTRACT NO: (15)

FY: (2)

NUMBER OF SEARCH/T.A. CLIENTS
BY SIC CODE (CUMULATIVE FY)

00000 AGRICULTURE (01-09)
00000 MINING (10-14)
00000 CONSTRUCTION (15-17)
00000 MANUFACTURING (19-39)
00000 19-Ordnance & Accessories
00000 20-Food & Kindred Prod.
00000 21-Tobacco Manufacturers
00000 22-Textile Mill Products
00000 23-Apparel & Oth. Tex Prod
00000 24-Lumber & Wool Products
00000 25-Furniture & Fixtures
00000 26-Paper & Allied Products
00000 27-Printing & Publishing
00000 28-Chemicals & Allied Prod.
00000 29-Petroleum & Coal Prod.
00000 30-Rubber & Plastic Prod.
00000 31-Leather & Leather Prod.
00000 32-Stone, Clay, Glass P.
00000 33-Primary Metal Indus.
00000 34-Fabricated Metal Prod
00000 35-Machinery Exc. Elec.
00000 36-Elec. Equip. & Suppl.
00000 37-Transportation Equip.
00000 38-Instruments & Rel Pro
00000 39-Misc. Mfg. Industries
00000 Admin. & Auxiliary
00000 TRANS & PUB UTIL (40-49)
00000 WHOLESALE TRADE (50)
00000 RETAIL TRADE (52-59)
00000 FIN INS/REAL ESTAT (60-67)
00000 SERVICES (70-89)
00000 STUDENTS/OTHER INDIVIDUALS
00000 STATE & LOCAL GOVTS.
00000 UNIDENTIFIED

00000 TOTAL NUMBER OF CLIENTS

APPENDIX D
REPORTS

NATIONAL AERONAUTIC AND SPACE ADMINISTRATION
IAC QUARTERLY MANAGEMENT REPORT

REPORT: XXXX
PAGE: 3

DATE: **/**/**

CENTER CODE: (10)

CONTRACT NO: (15)

FY: (2)

TYPE OF CLIENT ASSISTANCE (NON-DATABASE SEARCH):

Market Studies:

(66)
(66)
(66)
(66)
(66)

Assistance with Development of Business Plan:

(66)
(66)
(66)
(66)
(66)

Engineering/Feasibility Studies:

(66)
(66)
(66)
(66)
(66)

Other:

(66)
(66)
(66)
(66)
(66)

**APPENDIX D
REPORTS**

NATIONAL AERONAUTIC AND SPACE ADMINISTRATION
IAC QUARTERLY MANAGEMENT REPORT

REPORT: XXXX
PAGE: 4

DATE: **/**/**

CENTER CODE: (10) CONTRACT NO: (15) FY: (2)

SEARCHES TOTAL:	QUARTER	YTD
Retrospective:	(9)	(9)
Current Awareness:	(9)	(9)
NASA RECON Searches:	(9)	(9)
NASA RECON Client Assists:	(9)	(9)
Other Databases Searches:	(9)	(9)
Other Databases Assist Client:	(9)	(9)

TOTAL NO. OF CLIENTS:

Repeats:	(9)	(9)
New Clients:	(9)	(9)

TOTAL DATABASES AVAILABLE TO CLIENTS	(9)
CLIENT REFERRALS TO OTHER IACs:	(9)
TO NASA FIELD CENTERS:	(9)
TO BOEING:	(9)

SMALL DISADVANTAGED 8(a) AND MINORITY BUSINESS ACTIVITIES:

	QUARTER	YTD
Small Business:	<u>(9)</u>	<u>(9)</u>
Disadvantaged Business 8(a):	<u>(9)</u>	<u>(9)</u>
Minority Business:	<u>(9)</u>	<u>(9)</u>

TOTAL NO. OF CLIENTS SERVED:	<u>(9)</u>	<u>(9)</u>
------------------------------	------------	------------

AGREEMENTS SIGNED: (9)

Participation in seminars and conferences directed toward small/disadvantaged/
minority businesses:

Sponsorship of conferences and seminars directed toward small/disadvantaged/
minority businesses:

APPENDIX D
REPORTS

REPORT: XXXXXX
PAGE 1

TUNS
TU PROJECTS
DETAILED REPORT

AS OF DATE: 00/00/00

TOPIC/CATEGORY:

RTOP NUMBER:

FUND_STATUS

KEY:

PROJECT TITLE:

ABSTRACT:

CENTER NAME:

TECHNICAL CONTACT:

TUO NAME:

TUO PHONE: () - EXT:

PROJECT STATUS:

STATUS AS OF START DATE: 00/00/00

COMPLETION DATE STANDARD MILESTONES (APPLICATION PROJECTS)	PLANNED	ACTUAL
1. APPROVED PROJECT START DATE	00/00/00	00/00/00
2. FEASIBILITY STUDY	00/00/00	00/00/00
3. CONTRACT AWARD	00/00/00	00/00/00
4. PROTOTYPE DEVELOPMENT	00/00/00	00/00/00
5. OPTIMIZATION (HARDWARE/SOFTWARE)	00/00/00	00/00/00
6. FIELD/LAB. DEMO/IMPLEMENTATION	00/00/00	00/00/00
7. FINAL REPORT/HANDBOOK/SPEC.	00/00/00	00/00/00
8. COMMERCIALIZATION	00/00/00	00/00/00
9. PROJECT COMPLETION DATE	00/00/00	00/00/00

ACCOMPLISHMENTS CURRENT QUARTER:

PROBLEMS:

PLANNED ACTIVITIES NEXT QUARTER:

APPENDIX D
REPORTS

REPORT: XXXXXX	TUNS	
PAGE 2	TU PROJECTS	
	DETAILED REPORT	AS OF DATE: 00/00/00

TOPIC/CATEGORY: RTOP NUMBER:

FINANCIAL STATUS

NASA CUMULATIVE:

REQUESTED:	\$00,000,000,000	OBLIGATED:	\$00,000,000,000
FUNDING (506):	\$00,000,000,000	COSTED:	\$00,000,000,000
COMMITTED:	\$00,000,000,000		

OTHER SOURCES:

TOTAL OTHER: \$00,000,000,000

APPENDIX D
REPORTS

REPORT: TUN
PAGE 1 TU PROJECTS STATUS REPORT BY CENTER AS OF DATE: 00/00/00

CENTER NAME:

TOPIC/CATEGORY:

<u>TITLE</u>	<u>RECORD KEY</u>	<u>CURRENT MILESTONE NUMBER</u>	<u>PLANNED OR ACTUAL</u>	<u>COMPLETION DATE</u>
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APPENDIX D
REPORTS

REPORT: TUN
PAGE 7 TU PROJECTS STATUS REPORT TOPIC/CATEGORY BY TOPIC
AS OF DATE: 00/00/00

TOPIC/CATEGORY:

CENTER NAME:

<u>TITLE</u>	<u>RECORD KEY</u>	<u>CURRENT MILESTONE NUMBER</u>	<u>PLANNED OR ACTUAL</u>	<u>COMPLETION DATE</u>
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APPENDIX D REPORTS

REPORT: TUNS
PAGE 1 TU PROJECTS FULL RERPORT BY TOPIC AS OF DATE: 00/00/00

TOPIC/CATEGORY: RTOP NUMBER:

TYPE: KEY:

PROJECT TITLE:

ABSTRACT:

CENTER NAME:
TECHNICAL CONTACT:
TUO NAME:
TUO PHONE:

PROJECT STATUS: STATUS AS OF DATE: 00/00/00
STANDARD MILESTONES (APPLICATIONS PROJECTS) COMPLETION DATE
PLANNED ACTUAL

1. APPROVED PROJECT START DATE	00/00/00	00/00/00
2. FEASIBILITY STUDY	00/00/00	00/00/00
3. CONTRACT AWARD	00/00/00	00/00/00
4. PROTOTYPE DEVELOPMENT	00/00/00	00/00/00
5. OPTIMIZATION (HARDWARE/SOFTWARE)	00/00/00	00/00/00
6. FIELD/LAB. DEMO/IMPLEMENTATION	00/00/00	00/00/00
7. FINAL REPORT/HANDBOOK/SPEC.	00/00/00	00/00/00
8. COMMERCIALIZATION	00/00/00	00/00/00
9. PROJECT COMPLETION DATE	00/00/00	00/00/00

APPENDIX D
REPORTS

REPORT: TUNS
PAGE 2 TU PROJECTS FULL RERPORT BY TOPIC AS OF DATE: 00/00/00

TOPIC/CATEGORY: KEY:

ACCOMPLISHMENTS CURRENT QUARTER:

PROBLEMS:

PLANNED ACTIVITIES NEXT QUARTER:

APPENDIX D
REPORTS

REPORT: TUNS
PAGE 1 TU PROJECTS CONSOLIDATED BY CENTER AS OF DATE: 00/00/00

CENTER:

PROJ KEY: TITLE:

APPENDIX D
REPORTS

REPORT: _____ TUNS
PAGE: _____ TU PROJECTS
FINANCIAL SUMMARY REPORT DATE: 00/00/00

CENTER CODE: _____

PROJECT TITLE:

NASA CUMULATIVE COSTS:

REQUESTED:	\$000,000,000	OBLIGATED:	\$000,000,000
FUNDING (506):	000,000,000	COSTED:	000,000,000
COMMITTED:	000,000,000		

TOTAL OTHER FUNDING: 000,000,000

PROJECT TITLE:

NASA CUMULATIVE COSTS:

REQUESTED:	\$000,000,000	OBLIGATED:	\$000,000,000
FUNDING (506):	000,000,000	COSTED:	000,000,000
COMMITTED:	000,000,000		

TOTAL OTHER FUNDING: 000,000,000

CENTER TOTAL TU PROJECT FUNDING:

NASA CUMULATIVE COSTS:

REQUESTED:	\$000,000,000	OBLIGATED:	\$000,000,000
FUNDING (506):	000,000,000	COSTED:	000,000,000
COMMITTED:	000,000,000		

TOTAL OTHER FUNDING: 000,000,000

NASA TOTAL TU PROJECT FUNDING: _____

NASA CUMULATIVE COSTS:

REQUESTED:	\$000,000,000	OBLIGATED:	\$000,000,000
FUNDING (506):	000,000,000	COSTED:	000,000,000
COMMITTED:	000,000,000		

TOTAL OTHER FUNDING: 000,000,000

APPENDIX D
REPORTS

TUNS

REPORT: SPACE BENEFITS INFORMATION DETAILED REPORT

PAGE 1

AS OF DATE: 00/00/00

TITLE:

CHAPTER:

PUBLICATION:

CENTER:

PAGE NUMBER:

NAME:

POSITION:

COMPANY:

ADDRESS:

CITY:

STATE:

ZIP:

PHONE:

TRANSFER MECHANISM:

LICENSE/PATENT:

ORIGIN:

PICTURES:

LEAD:

TECHNICAL TERMS:

INDUSTRIAL PRODUCT:

INDUSTRIAL PROCESS:

CONSUMER:

APPENDIX D
REPORTS

REPORT: _____ TUNS
PAGE: _____ SPACE BENEFITS (CENTRAL)
STATISTICAL SUMMARY DATE: 00/00/00

SELECTION CRITERIA:

ESTIMATED TOTAL VALUE OF BENEFIT COUNT:

\$1 - \$99,999 _____
\$100,000 - \$999,999 _____
\$1,000,000 - over _____

NATURE OF BENEFIT:

NEW PRODUCT: _____	REDUCED COST: _____ INCREASED REVENUE: _____
IMPROVED PRODUCT: _____	REDUCED COST: _____ INCREASED REVENUE: _____
NEW PROCESS: _____	REDUCED COST: _____ INCREASED REVENUE: _____
IMPROVED PROCESS: _____	REDUCED COST: _____ INCREASED REVENUE: _____
NEW MATERIAL: _____	REDUCED COST: _____ INCREASED REVENUE: _____
IMPROVED MATERIAL: _____	REDUCED COST: _____ INCREASED REVENUE: _____
OTHER BENEFIT: _____	REDUCED COST: _____ INCREASED REVENUE: _____

TYPE OF USER:

PRIVATE CITIZEN: _____	FOREIGN/INTERNATIONAL: _____
LOCAL GOVERNMENT: _____	MINORITY OWNED: _____
STATE GOVERNMENT: _____	FEMALE OWNED: _____
NATIONAL GOVERNMENT: _____	SMALL BUSINESS: _____
EDUCATIONAL: _____	DISADVANTAGED: _____
NON PROFIT: _____	SECTION 8(a): _____
PRIVATE SECTOR BUSINESS: _____	

